

# **EXHIBIT E**

1                 UNITED STATES DISTRICT COURT  
2                 SOUTHERN DISTRICT OF WEST VIRGINIA  
3                 AT CHARLESTON  
4                 IN RE: ETHICON, INC.,         ) MASTER FILE  
5                 REPAIR SYSTEM PRODUCTS,     ) NO. 2:12-MD-02327  
6                 LIABILITY LITIGATION      )  
7  ) MDL NO. 2327  
8                 THIS DOCUMENT RELATES TO )  
9                 THE FOLLOWING CASES IN     ) JOSEPH R. GOODWIN  
10                wave 1 of 200:                 ) US DISTRICT JUDGE  
11                MARIE BANKS, ET AL. V.     )  
12                ETHICON, INC., ET AL         )  
13                NO. 2:12-CV-01318             )  
14  )  
15                ROBIN BRIDGES V.             )  
16                ETHICON, INC., ET AL.         )  
17                NO. 2:12-CV-00651             )  
18  ) APRIL 30, 2016  
19                DENNIS W. DIXON, ET AL.     )  
20                V. ETHICON, INC., ET AL.     )  
21                NO. 2:12-CV-01081             )  
22  ) VIDEOTAPED DEPOSITION OF  
23                PAULA FISK V.                 ) DIONYSIOS K. VERONIKIS, M.D.  
24                ETHICON, INC., ET AL.         )  
25                NO. 2:12-CV-00848             )  
26  )  
27                SHERRY FOX, ET AL. V.     )  
28                ETHICON, INC., ET AL.         )  
29                NO. 2:12-CV-00878             )  
30  )  
31                LOUISE GRABOWSKI V.         )  
32                ETHICON, INC., ET AL.         )  
33                NO. 2:12-CV-00683             )  
34  )  
35                NANCY HOOPER, ET AL. V.     )  
36                ETHICON, INC., ET AL.         )  
37                NO. 2:12-CV-00493             )  
38  )  
39                WILMA JOHNSON V.             )  
40                ETHICON, INC., ET AL.         )  
41                NO. 2:11-CV-00809             )  
42  )  
43                LAURA WAYNICK, ET AL. V.     )  
44                ETHICON, INC., ET AL.         )  
45                NO. 2:12-CV-01151             )  
46

1 VIRGINIA WHITE, ET AL. V.)  
2 ETHICON, INC., ET AL. )  
3 NO. 2:12-CV-00958 )  
4 JULIE WROBLE, ET AL. V. )  
5 ETHICON, INC., ET AL. )  
6 NO. 2:12-CV-00883 )

5  
6 SATURDAY, APRIL 30, 2016

7  
8 - - -

9 Videotaped deposition of Dionysios  
10 K. Veronikis, M.D., held at the Hilton St.  
11 Louis - Frontenac, 1335 South Lindbergh  
12 Boulevard, Frontenac, Missouri, commencing at  
13 8:55 a.m., on the above date, before Carrie  
14 A. Campbell, Registered Merit Reporter,  
15 Certified Realtime Reporter, Illinois,  
16 California and Texas Certified Shorthand  
17 Reporter, and Missouri Certified Court  
18 Reporter.

19 - - -  
20  
21  
22  
23  
24

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1 A P P E A R A N C E S :

2

3 BLASINGAME BURCH GARRARD ASHLEY, PC  
4 BY: JAMES B. MATTHEWS, ESQUIRE  
jbm@bbgbalaw.com  
5 440 College Avenue  
Athens, Georgia 30601  
(706) 354-4000

6

7 AYLSTOCK, WITKIN, KREIS & OVERHOLTZ,  
PLLC  
8 BY: MARY LIU, ESQUIRE  
mliu@awkolaw.com  
17 East Main Street, Suite 200  
9 Pensacola, Florida 32502  
(850) 202-1010  
10 Counsel for Plaintiffs

11

12 BRYAN CAVE, LLP  
BY: DAN H. BALL, ESQUIRE  
dhball@bryancave.com  
13 JAMES P. EMANUEL, JR., ESQUIRE  
James.Emanuel@bryancave.com  
14 211 North Broadway, Suite 3600  
St. Louis, Missouri 63102  
15 (314) 259-2000  
Counsel for Defendants

16

17 ALSO PRESENT VIA TELEPHONE:

Mark Mueller, Mueller Law Office

18 - - -

19

20

21

22

23

24

1 DIONYSIOS K. VERONIKIS, M.D.,  
2 of lawful age, having been first duly sworn  
3 to tell the truth, the whole truth and  
4 nothing but the truth, deposes and says on  
5 behalf of the Defendants, as follows:

6

7 DIRECT EXAMINATION

8 QUESTIONS BY MR. BALL:

9 Q. Would you tell us your name,  
10 please?

11 A. Dionysios Veronikis,  
12 D-i-o-n-y-s-i-o-s, V-e-r-o-n-i-k-i-s.

13 Q. Dr. Veronikis, my name is Dan  
14 Ball, and I represent Ethicon. And I'm going  
15 to be asking you some questions about the two  
16 reports you've submitted in the federal court  
17 litigation involving TVT® and involving  
18 Gynemesh® PS.

19 You understand that?

20 A. Yes.

21 (Veronikis Exhibit 1 marked for  
22 identification.)

23 QUESTIONS BY MR. BALL:

24 Q. So the first thing I'm going to

1 do is mark as Exhibit 1 to your deposition  
2 and ask you to just briefly take a look at  
3 that.

4 A. Yes.

5 Q. Exhibit 1 is the notice to take  
6 this deposition, right?

7 A. Yes.

8 Q. And have you seen this before?

9 A. Yes, sir. It was e-mailed to  
10 me by Mr. Matthews.

11 Q. And there's an attachment to  
12 that asking you to bring various things to  
13 the deposition.

14 Did you get a chance to look at  
15 that.

16 A. I did, and I spoke with  
17 Mr. Matthews, and he said he would bring  
18 everything.

19 Q. Now, so do you have anything, I  
20 guess, Mr. Matthews to produce with respect  
21 to the depo notice?

22 MR. MATTHEWS: You want to --  
23 well, those boxes there contain the  
24 documents that are referenced as

1 footnotes in his reports in both of  
2 them. This thumb drive contains  
3 everything that he was sent and  
4 reviewed.

5 MR. BALL: Okay.

6 MR. MATTHEWS: There's -- if  
7 you don't want to take the boxes or  
8 mark them as exhibits, there's a --  
9 everything in those boxes is on a CD  
10 that I also brought with me.

11 MR. BALL: So I think what I'll  
12 do is mark the thumb drive and the --  
13 or I don't even need to mark them. We  
14 can just -- yeah, I'll mark them.

15 Mark them and that is the two CDs, I  
16 think it would be the most convenient  
17 way.

18 (Veronikis Exhibits 4 and 5  
19 marked for identification.)

20 MR. BALL: Exhibit 4 is a thumb  
21 drive which is?

22 MR. MATTHEWS: All of his  
23 reference materials.

24 MR. BALL: And Exhibit 5 is a

1 CD which is?

2 MR. MATTHEWS: His reports for  
3 each product and the footnotes for  
4 each product. The documents that  
5 reference -- that are referenced in  
6 the footnotes.

7 MR. BALL: Great. Thank you  
8 for that.

9 QUESTIONS BY MR. BALL:

10 Q. Now, have you charged for your  
11 services in this case?

12 A. Not yet.

13 Q. Okay. Do you intend to?

14 A. Yes.

15 Q. Okay. And what will be the  
16 basis for your charges?

17 How will those be calculated?

18 A. It's an hourly rate.

19 Q. And what is that?

20 A. It's a thousand dollars an  
21 hour.

22 Q. And do you have an estimate as  
23 to how many hours you spent coming into the  
24 start of this deposition?

1 A. Could you -- just for

2 preparation of this deposition?

3 Q. Yeah, that's fair. I'm going  
4 to ask a series of them so we'll start off.

5 First of all, to prepare the  
6 two reports that we're going to be talking  
7 about here today?

8 A. So it's about 50 hours.

9 Q. And any other work you've done  
10 in preparation for this deposition?

11 A. I reviewed everything that they  
12 had sent me, and it was a ton of stuff.

13 Q. And about how many hours was  
14 that?

15 A. 300. 350. I didn't add up the  
16 numbers just yet.

17 Q. Okay. So in connection with  
18 this deposition and these reports, you would  
19 estimate that you've spent in the  
20 neighborhood of 350 to 400 hours?

21 A. Yes.

22 Q. And what is your charge for  
23 deposition?

24 A. It's 6,000 for half a day,

1 10,000 for entire day.

2 Q. How about two-thirds of a day,  
3 what is that?

4 Is it done on some hourly basis  
5 or --

6 A. If it's an hour and a half or  
7 two hours sometimes, I'll, just to be fair,  
8 that's what it is. If it takes a half day or  
9 a full day, I try to be fair and consistent.

10 Q. And is that what your charge  
11 would be if you ever appeared for trial would  
12 be \$10,000 a day?

13 A. Yes.

14 Q. Does that include -- if you had  
15 to travel to West Virginia, would it be  
16 \$10,000 the day you travel over there?

17 A. It would be traveling expenses  
18 and my day there.

19 Q. So let's say you were going to  
20 testify on a Tuesday and you went over on a  
21 Monday, would it be \$10,000 for Monday and  
22 10,000 for Tuesday?

23 A. No.

24 Q. What would the Monday be?

1 A. My travel expenses.

2 Q. Okay. You wouldn't charge for  
3 your time in traveling?

4 A. No.

5 Q. Okay. Now, you also served as  
6 an expert witness on individual cases?

7 A. Yes.

8 Q. How many of those involving  
9 Ethicon?

10 A. In the patients I examined for  
11 everyone who sent or just Mr. Matthews?

12 Q. Everyone.

13 A. Maybe ten.

14 Q. Ten patients?

15 A. Yes.

16 Q. Okay. And do you have an  
17 estimate as to what your average billings  
18 were per case on each one of those?

19 A. It depends on the number of  
20 records and the time. It varies from 7,  
21 8,000, depending on the records, to 12, 14.

22 Q. So 10 to 12 would be a good  
23 estimate on average?

24 A. Yes.

1 Now, on this notice --

2 Q. Yeah.

3 A. -- there's only one patient

4 that I've seen from this notice.

5 Q. And I wasn't just limiting to  
6 that notice.

7 A. Okay.

8 Q. I was saying in general you've  
9 seen about ten patients, Ethicon litigation  
10 patients?

11 A. Yes.

12 Q. And they've been about 10 or  
13 \$12,000 per patient to do an examination and  
14 a report?

15 A. Yes.

16 Q. And review the records?

17 A. Yes.

18 Q. And then in those cases, you  
19 either have or in the process of giving  
20 depositions on those?

21 A. I've been deposed on one  
22 patient.

23 Q. Okay. And that's a \$6,000 per  
24 half day charge for that?

1 A. That was only two hours so I'll  
2 probably just submit for two hours. I think  
3 the Attorney Emanuel was there for that.

4 Q. So that would be a couple  
5 thousand dollars?

6 A. Right.

7 Q. Okay. Now, aside from the two  
8 reports that we're going to talk about here  
9 today and the ten patients that you've seen  
10 approximately, have you done any other work  
11 related to litigation involving Ethicon?

12 A. No.

13 Q. Okay. Now, have you been  
14 retained by a plaintiff to testify in cases  
15 against any other mesh manufacturers?

16 A. NO.

17 Q. Have you ever been engaged to  
18 testify by a mesh manufacturer or serve as an  
19 expert by a mesh manufacturer?

20 A. NO.

21 (Veronikis Exhibits 2 and 3  
22 marked for identification.)

23 QUESTIONS BY MR. BATT:

24 O. Exhibit 2 is a copy of the

1 report and materials that accompany the  
2 report relating to TVT® in this litigation;  
3 is that right?

4 A. Yes.

5 Q. And Exhibit 3 is a copy of the  
6 report and materials that accompanied the  
7 report in this litigation related to  
8 Gynemesh® PS; is that right?

9 A. Yes.

10 Q. Now, pursuant to the court  
11 rules, do Exhibits 2 and 3 contain all of  
12 your opinions and bases for those opinions  
13 that you intend to express in this  
14 litigation?

15 A. Up to this point, yes.

16 MR. MATTHEWS: So we're on the  
17 same page, some people have been doing  
18 depositions when the deponent has  
19 given two reports by doing the  
20 deposition on one report and then a  
21 separate deposition on the second  
22 report. Some people have just taken  
23 five hours to do kind of a  
24 combination.

1 MR. BALL: I thought it was  
2 six.

3 MR. MATTHEWS: It's five on the  
4 first, two on the second.

5 MS. LIU: Three on the first.

6 MR. MATTHEWS: I mean, three on  
7 the first, two on the second.

8 MR. BALL: I was told three and  
9 three because there's two -- calm  
10 down.

11 MR. MATTHEWS: It's three and  
12 two. And I don't care if you do five  
13 hours and combine them.

14 MR. BALL: I'm going to do five  
15 hours and combine them because I'm not  
16 good enough to draw that line so  
17 precisely.

18 MR. MATTHEWS: Fine with me.

19 MR. BALL: Having said that, I  
20 will try to kind of go through mostly  
21 TVT® stuff and then mostly Gynemesh®  
22 PS stuff.

23 MR. MATTHEWS: Doesn't matter  
24 as long as I know what game we're

1 playing.

2 MR. BALL: James, can you just  
3 send the few people, whoever you  
4 wish -- and I'm not questioning, I'm  
5 just saying I got different  
6 information -- and I just want to see  
7 what they said and see --

8 MR. MATTHEWS: It was an  
9 agreement between Tom Cartmell and  
10 Brian Aylstock and Dave Thomas. And  
11 that's the way every deposition has  
12 been done so far.

13 MR. BALL: I'm not disputing.

14 I just want to --

15 MR. MATTHEWS: I understand.

16 That's fine.

17 MR. BALL: -- trust and verify.

18 MR. MATTHEWS: I'm just trying  
19 to get out of here earlier.

20 QUESTIONS BY MR. BALL:

21 Q. All right. Now, what I would  
22 like to do, first of all, is talk about what  
23 your practice is and has been the last  
24 several years.

1 All right?

2 A. Sure.

3 Q. Do you perform surgery for  
4 stress urinary incontinence?

5 A. Yes, sir.

6 Q. Okay. SUI?

7 A. Yes.

8 Q. Okay. Do you perform surgery  
9 for prolapse?

10 A. Yes.

11 Q. Anterior, posterior, apical?

12 A. Yes.

13 Q. And of those two types of  
14 surgeries, which do you do more?

15 A. It's hard to say. You get  
16 patients that present with predominantly  
17 prolapse symptoms and when you reduce that  
18 prolapse, they also have incontinence. You  
19 have other patients that present with a  
20 primary complaint of incontinence, you  
21 examine them and they have other defects.

22 So you end up doing a lot. It  
23 might be fair to say, I don't know, 50/50.

24 Q. Okay. Do you also do surgery

1 to deal with issues related to mesh products  
2 that have already been implanted?

3 A. Unfortunately.

4 Q. Okay. How does that fall --  
5 which is more common, that surgery or the  
6 original surgeries that you do for prolapse  
7 or SUI?

8 A. So I've limited the patients  
9 that I see with mesh complications and I try  
10 to balance that between 50 percent mesh  
11 complications and 50 percent primary  
12 patients.

13 Q. Has that been the case for the  
14 past several years, or have the percentages  
15 differed?

16 A. I've actually dialed it down a  
17 little bit.

18 Q. Dialed what down?

19 A. The number of patients that I  
20 will see with mesh complications.

21 Q. Okay. What did it use to be  
22 percentagewise?

23 A. Oh, at one point it was 60,  
24 70 percent, and I'm in a training program and

1 by doing more of the complicated mesh  
2 removals, the residents in training weren't  
3 getting enough of the educational-type of  
4 procedures that they need to participate in.  
5 It created some grief so I dialed it back a  
6 little bit.

7 Q. And how long ago was it that it  
8 was 60 to 70 percent?

9 A. 18 months ago.

10 Q. So what is the -- what does  
11 that work out to annually if it's 50 percent,  
12 let's say, how many mesh complication  
13 surgeries per year?

14 A. So in 2015, I removed 296  
15 implants. I did a total of 605 surgeries.

16 Q. Very precise.

17 The mesh implants that you  
18 removed, let's use last year, how many of  
19 those were for SUI as opposed to for  
20 prolapse?

21 A. I have that number, but I don't  
22 have it off the top of my head. I looked at  
23 some different numbers in preparation for  
24 this, but I would say that the vast majority

1 are for SUI.

2 Q. Vast majority of the removals?

3 A. Yes.

4 Q. Okay. Now, one of the products  
5 that we're going to be talking about here  
6 today is a TVT® device, true?

7 A. Yes.

8 Q. Made by Ethicon, true?

9 A. Yes.

10 Q. And have you ever implanted a  
11 TVT®?

12 A. I think I did it once or twice.

13 Q. Okay. When?

14 A. When it first came out.

15 Q. Do you have a specific  
16 recollection of that or not?

17 A. I have a specific recollection  
18 because Hattie Loggie, who was the local rep,  
19 was very interested in obtaining my business  
20 since I do a large volume and that would be  
21 good for her.

22 I know there were discussions  
23 after that they kept trying to get me to use  
24 it, but I was not happy with the approach to

1 implant the product or the product itself.

2 So I kind of got pressured to try one because  
3 they said try one, and then I tried a second  
4 one, and I didn't do anymore.

5 Q. And when was that?

6 A. Early when it first came out,  
7 very early. Ballpark, 2000 to 2003.

8 Q. That time period?

9 A. Yes, sir.

10 Q. What was it about the  
11 approach -- you said the approach and the  
12 product, I think that's the word you used?

13 A. Yes.

14 Q. What was it about that --

15 A. Well --

16 Q. -- that you were dissatisfied  
17 with?

18 A. Yes. I was very used to doing  
19 synthetic slings, and being trained as a  
20 vaginal surgeon, I had ideas of what a safe,  
21 effective surgery should be. When I looked  
22 at the IFU and the videos for performing the  
23 surgery, it was apparent that the way that  
24 they wanted me to do it wasn't, in my

1       opinion, safe.

2                     In the ones I did perform, I  
3       did not follow Ethicon's recommendations. I  
4       did what I normally do for slings and used  
5       their product.

6                     Q.       What was it about the procedure  
7       that you considered to be unsafe?

8                     A.       The procedure was supposed to  
9       start with a 1.5 centimeter incision, 1  
10      centimeter from the urethra medias. That  
11      area of the anatomy immunologically develops  
12      from the sinovaginal bulbs, and it's fused so  
13      you can't really gauge the depth of  
14      dissection accurately. And it's a  
15      curvilinear structure. It's a tube. So you  
16      really need to separate that structure much  
17      more precisely.

18                     So the way that the  
19      instructions were was to make an incision and  
20      then make a half-centimeter blunt dissection,  
21      and at the time they had the 5-millimeter  
22      trocar, and you're trying to take a round  
23      structure, a trocar, and compress it between  
24      the flap that you created and then they had

1 the device inside, the guide wire, which  
2 really doesn't do anything if you really  
3 think about it -- but I don't want to get  
4 ahead of myself.

5 So it was a 5-millimeter  
6 trocar, supposed to make a 5-millimeter  
7 incision and tunnel it a little bit. I had  
8 read Ulmsten's original report and in his  
9 original report you were supposed -- he said  
10 make .5 to 1 centimeter. So the difficulty I  
11 had was with the pressure that was required  
12 to pass the trocar, the snug fit between the  
13 vaginal wall and the urethra, which was a  
14 tubular structure, not moving the lateral  
15 bladder side wall. The guide wire would be  
16 like taking a pen and putting it into a water  
17 bottle; it's not going to move the sides in.  
18 And the safety aspects of doing a sling is to  
19 move the paravaginal retropubic space and  
20 open that up and move the bladder medially so  
21 when you pass that trocar, you're literally  
22 passing it through an open space.

23 The technique that was  
24 described and asked me to do I thought it was

1 unsafe. It yielded a high risk of a bladder  
2 puncture and injury. So I didn't follow  
3 those.

4 Q. Did you use the -- the  
5 procedure you did use, did you use the trocar  
6 that came with the sling?

7 A. I used the trocar, but I didn't  
8 use the handle.

9 Q. Okay. And just briefly how did  
10 your approach differ from what was  
11 recommended in the IFU?

12 A. Sure.

13 So I started my incision about  
14 the midanterior vaginal wall. I identified  
15 the vesicovaginal space. What that had me do  
16 is it identified the blood supply and the  
17 thickness of the vaginal wall. I carry that  
18 dissection all the way to the urethra medias.  
19 I separated the vaginal wall from the  
20 urethra. I then pierced the urogenital  
21 diaphragm, created a much larger than  
22 1-centimeter opening. I opened the  
23 retropubic space.

24 I developed an instrument that

1 allows me to get on the side of the bladder  
2 between the obturator internus muscles and  
3 the bladder sidewall and push that bladder  
4 wall over. Holding in that blunt retractor,  
5 sort of like a trocar but it's blunt, so when  
6 you push it, it won't poke a hole. I was  
7 able to move the bladder and all of the  
8 structures to the posterior aspect of the  
9 abdominal wall. Then touching that blunt  
10 retractor with a sharp trocar, the only thing  
11 I pierced was the rectus muscles. I did that  
12 on both sides.

13 Q. Which is what you wanted to  
14 pierce?

15 A. Yes.

16 Q. Okay. Now, the instrumentation  
17 and the procedure that was in the IFU and  
18 with the TVT® back 15 years or so ago when  
19 you did this, is that the same -- has that  
20 before changed?

21 Has Ethicon ever changed either  
22 for the TVT®, either its instrument or its  
23 recommended procedure?

24 A. I'm going to ask a question.

1 Q. Sure.

2 A. You're assuming we're talking  
3 about retropubic slings?

4 Q. Yes. That's all your report  
5 deals with.

6 A. Yes, I didn't comment on TVT®  
7 Exact, but they did --

8 Q. But your report is only about  
9 the TVT® retropubic sling?

10 A. Yes, sir.

11 Q. That's all I am talking about  
12 here. And if I ask about something else,  
13 I'll --

14 A. Okay. They did change it and  
15 call it TVT® Exact where they changed the  
16 trocar a little bit and put a plastic sheath  
17 on the end of the mesh, but the tenets of the  
18 procedure pretty much stayed the same.

19 Q. So the TVT® even through the  
20 TVT® Exact, both the instrument and the  
21 recommended technique have remained  
22 essentially the same?

23 A. They have.

24 And what it does is it takes a

1       1-centimeter mesh and upon implantation, it  
2       forces it to fold in that 5-millimeter  
3       tunnel.

4           Q.       Do you have more criticism of  
5       the TVT® with respect to the procedure and  
6       the trocar instrumentation that's being used  
7       or with respect to the mesh itself?

8           A.       I have criticisms of the entire  
9       kit, and that kit consists of the delivery  
10      system and the mesh.

11          Q.       I know that.

12                 What I asked you is do you have  
13       criticism more of one than the other, the  
14       technique and the instrumentation on the one  
15       hand versus the mesh?

16          A.       I have criticism of both. I  
17       don't know which one would be more because  
18       they're sort of together. You really can't  
19       isolate the one from the other.

20          Q.       Now, what do you use  
21       polypropylene slings today for SUI?

22          A.       I do.

23          Q.       Okay. What product?

24          A.       I'm currently use Caldera. I

1 used to use BARD Uretex.

2 Q. So Caldera is a company?

3 A. Yes, sir.

4 Q. Does it have a brand within  
5 that company?

6 A. I think the implant is called  
7 Desara.

8 Q. And how long have you been  
9 using that?

10 A. Since 2010.

11 Q. Does that come with  
12 instrumentation?

13 A. Instrumentation is provided,  
14 yes.

15 Q. Do you use it?

16 A. I do not.

17 Q. And does it come with an IFU?

18 A. It does.

19 Q. Does the IFU give a recommended  
20 technique?

21 A. It does.

22 Q. Do you follow that technique?

23 A. I do not.

24 Q. Why do you not use the

1 instrumentation that comes with the Desara?

2 A. It's not designed quite right.

3 Q. Okay. Do you believe it is, at  
4 least to some degree, unsafe, use of that  
5 instrumentation?

6 A. I've never used it.

7 Q. Okay. And you don't use it  
8 because you think it might be unsafe?

9 A. I don't use it because I  
10 designed my own trocar that allows me more  
11 precision in how to handle it.

12 The TVT® trocar had a handle on  
13 it. I didn't use the handle, but at least  
14 that handle was detachable. The Desara  
15 handles have a nondetachable handle. It  
16 gives you too much torque. So I developed a  
17 trocar that does -- that limits how much  
18 torque you apply. Makes it safer.

19 Q. Is that your own special --  
20 does it have a name?

21 A. No.

22 Q. Okay. Is it commercially  
23 available?

24 A. It can be but, no.

1 Q. What do you mean?

2 A. Well, if someone wanted it, I  
3 would make one for them.

4 Q. But you're not trying to  
5 commercially develop them?

6 A. Oh, no. No.

7 Q. Why don't you use the Desara  
8 technique?

9 A. All of the techniques are  
10 pretty much the same for all the slings.  
11 They all want you to do it kind of the same  
12 way.

13 Q. The way you described on the  
14 TVT®?

15 A. Yes, sir.

16 Q. Okay. And for the reasons  
17 you've described, you don't find that  
18 acceptable and you use the technique that you  
19 described earlier?

20 A. Yes.

21 Furthermore, the Desara product  
22 doesn't have a tubular attachment to it so it  
23 allows me to tailor the surgery to my own  
24 preferences as opposed to being confined.

1                   It's not as easy to do that  
2       with some of the other slings.

3                   Q.         Including the TVT®?

4                   A.         Yes.

5                   Q.         You said you used a BARD  
6       product before the Desara?

7                   A.         Yes.

8                   Q.         And what was the name of that?

9                   A.         Uretex.

10                  Q.         And did that have an  
11       instrumentation to be used?

12                  A.         It did.

13                  Q.         Did you use it?

14                  A.         I did.

15                  Q.         Okay. Did you think it was  
16       good?

17                  A.         It was good.

18                  Q.         Okay. Why did you change from  
19       Uretex to Desara?

20                  A.         The company got sold. I  
21       couldn't get it anymore.

22                  Q.         And in terms of technique, was  
23       the technique recommended with the Uretex  
24       about the same as the TVT® and the Desara?

1 A. Yes.

2 Q. And you did not use that  
3 technique?

4 A. I did not.

5 Q. Okay. What was it about the  
6 Uretex instrument that made it acceptable to  
7 use and so you didn't use your own?

8 A. It allowed me to pass the  
9 trocar without the sling. So I was able to  
10 create my exposure, dissect the vaginal wall,  
11 open it the way I like, dissect the  
12 retropubic space, pass the trocar, leave --  
13 at that point it was a little plastic tube --  
14 leave a little blue tube in position, remove  
15 the trocar, do the other side, not bring the  
16 sling into the field at all because it is  
17 sort of a contaminated area.

18 So it allowed me to not bring  
19 the mesh on to the field until I was ready to  
20 implant it. Because if you have a bladder  
21 puncture, you had bleeding, the patient was  
22 stooling on the table, you know, you had  
23 complete control of it, which is what I'm  
24 able to do with Desara, which is what I did

1 for my first sling.

2 So the slings I have used have

3 been an Ethicon Mersilene from '94 to 2003 --

4 Q. Did you think that was a safe  
5 product?

6 A. I did at the time.

7 Q. Do you today?

8 A. Its properties as an implant  
9 are questionable. It deteriorates.

10 Q. But --

11 A. So from then, the reason I  
12 changed was I wanted a less invasive sling.

13 When you used a completely  
14 home-crafted sling, you made incisions that  
15 were 5 centimeters on the each side. Almost  
16 looked like an hernia repair, more invasive,  
17 took more OR time.

18 Q. That was the Mersilene?

19 A. That was the Mersilene.

20 But it worked fine. Had a very  
21 high success rate. Steve Young did a paper  
22 on it with good outcomes, few complications,  
23 and then the trend was to do less invasive  
24 surgery. Data came out that polyethylene

1 terephthalate, which is what Mersilene was,  
2 may be degrading a little bit. I certainly  
3 didn't want that.

4 It was touted that  
5 polypropylene was the next great material.  
6 It was less invasive, and I developed a  
7 technique that was very similar to the  
8 Mersilene placement, which I was very  
9 comfortable with, which I knew what the  
10 outcomes were, and went to Uretex.

11 Q. Okay. So '94 to 2000 was  
12 Mersilene, and then 2000 to 2010 was Uretex,  
13 or did I miss anything in between?

14 A. Close.

15 So '94 to about 2003.

16 Q. Okay. Was Mersilene?

17 A. Mersilene.

18 I also didn't like the TVT®. I  
19 was kind of spoiled. When I handled the  
20 Mersilene, it didn't fray, it didn't fall  
21 apart. I could manipulate the edges. I  
22 could suture the edges. There was things  
23 that I could do to it that I still do  
24 surgically that I could not do with the TVT®.

1 One of the things with  
2 Mersilene is that it has a bias. So the  
3 first thing I did, knowing that, and I didn't  
4 know any better, was I pulled on the TVT® and  
5 it frayed.

6 Q. Is Mersilene still sold for  
7 sling repairs?

8           A.       It was never really sold for  
9     sling repairs. It was sold as a product that  
10   you used as a surgeon as you saw fit.

11 Q. Okay. Did you have to cut it  
12 for a particular surgery?

13 A. Yes.

14 Q. Okay. Did it come with its own  
15 instruments?

16 A. It did not.

17                   Q.         Okay. So just so I've got the  
18        timeline.

21 A. Yes.

22 Q. Which was called what, just  
23 called Mersilene?

24 A. Yeah, just -- well, there's two

1 Mersilenes to clarify. There's Mersilene  
2 mesh, which comes in a sheet which is about  
3 10 inches by 10 inches, and there's Mersilene  
4 ribbon, which is used for cerclage, which is  
5 actually one of the first uses of a sling was  
6 by Tiffany Williams and TeLinde in '62. It  
7 was a very similar TVT®, small needles, and  
8 they used it for cerclage --

9 Q. Which did you use?

## 10 A. The Mersilene mesh.

11 Q. The sheet?

12                   A.         Yes, sir. And I would cut it,  
13 like you said.

14 Q. Okay. And then from '03 to  
15 '10, you used the BARD Uretex until it wasn't  
16 sold anymore, and then from '10 forward the  
17 Desara?

18 A. Yes.

19 Q. Now, do you know or have any  
20 opinion today as to -- what else is out  
21 there?

22 There's the TTV®?

23 A. Yes.

24            0.        And the various iterations of

1 the TVT®?

2 A. Yes.

3 Q. And then there's Desara?

4 A. That's Desara.

5 Q. What else?

6 A. There's Advantage and Advantage

7 Fit by Boston Scientific.

8 Q. Okay.

9 A. There was a line by BARD.

10 There is the Supris by Coloplast. And I'm  
11 not sure if I'm missing anyone.

12 Q. Have you used any of those  
13 other ones that you just mentioned, the  
14 Coloplast, the BARD Align or the Boston  
15 Scientific one?

16 A. I used the Align when --  
17 because BARD was the import of Sofradim from  
18 France.

19 When they were no longer able  
20 to get it, they said they were coming out  
21 with a sling. I tried it. I did not like  
22 the characteristics. I confirmed that sling  
23 was -- didn't have the same characteristics  
24 as the Uretex. When I would operate at a

1 certain hospital, the only product they had  
2 was Boston Scientific so they would not get  
3 me the Desara. So on a few cases I had to  
4 use the Boston Scientific product.

5 Q. What hospital was that?

6 A. St. Anthony's.

7 Q. Okay.

8 A. I stopped going there because  
9 of that.

10 Q. Okay. Did you think that was  
11 an acceptable product or not?

12 A. Very heavy. It had the same  
13 limitations as the TVT® Exact. It's a flat,  
14 1-centimeter piece of mesh rolled and  
15 attached to almost like a straw where you put  
16 the trocar through there.

17 Again, I didn't follow the  
18 manufacturer's instructions.

19 Q. All right. Now, of those that  
20 have been on the market the last several  
21 years, do you have any opinion or impression  
22 as to which has been most commonly used by  
23 surgeons for SUI?

24 A. I don't.

1 Q. So you don't know which one is  
2 the biggest seller, so to speak?

3 A. No, but I see how many of each  
4 I remove, and it's -- the TVT® is maybe a  
5 little bit higher because the brand name was  
6 really smart marketing, TVT®. It was the  
7 first on the market so it had a large market  
8 share. So probably the TVT® is a little more  
9 popular maybe.

10 Q. Have you ever had to remove a  
11 BARD -- I've already forgotten the name.

12 A. Align.

13 Q. No the one before that?

14 A. Uretex?

15 Q. Yes.

16 Have you ever had to remove a  
17 BARD Uretex?

18 A. Yes.

19 Q. Several?

20 A. Yes.

21 Q. Have you ever had to remove a  
22 Desara?

23 A. I removed a Desara TOT. I have  
24 not removed the Desara retropubic.

1 Q. And have you ever had to remove  
2 all or a portion of a sling implanted by you?

3 A. I release slings for some  
4 voiding difficulty. I cut them in the  
5 middle.

6 Q. Have you ever had to remove a  
7 sling or a portion of a sling?

8 A. I've reviewed --

9 Q. Implanted by you?

10 A. Yes, I've removed a sling I've  
11 implanted.

12 Q. How many?

13 A. To my knowledge, one.

14 Now, that was a lady that had a  
15 previous TTVT®, had a failure. I got a sling,  
16 a second sling, and was still having  
17 incontinence. So what I did is I removed  
18 both the TTVT® and my sling to start over.

19 Q. Is it your testimony that the  
20 TTVT® procedure kit, product, is so unsafe  
21 that it never should be on the market?

22 A. I think the risks far outweigh  
23 the benefits.

24 Q. So it never should have been

1       sold?

2           A.       No.

3           Q.       You agree with that?

4           A.       I agree with that.

5           Q.       Okay. Do you know anybody else  
6       in the world who agrees with that opinion  
7       that the TVT® never should have been sold?

8           A.       I don't know a lot of people so  
9       I'm really -- I really shouldn't -- can't  
10      answer that.

11          Q.       Well, the answer is you don't  
12      know anyone that shares that opinion, true?

13          A.       I think a more appropriate  
14      answer is I don't really talk about this  
15      stuff with other people too much about what  
16      their preferences are.

17          Q.       Is there any piece of  
18      literature or study, any piece of medical or  
19      scientific literature that you can point to  
20      that supports your opinion that the TVT®  
21      risks so outweigh its benefits that it never  
22      should have been on the market?

23          A.       It says that exact statement?

24          Q.       Or that supports that

1 statement.

2 A. I think there's papers that  
3 state that there's degradation of the mesh  
4 and there is a paper that says that the  
5 complications are not what's really reported  
6 in the literature. So some of the  
7 complications that were seen are skewed in a  
8 very specific way.

9 Q. Okay. Which paper is that?

10 A. I think her name was Anger.

11 Q. And what's the paper that says  
12 there's degradation?

13 A. That would be Clavé.

14 Q. Was that in vivo degradation  
15 that was reported by Clavé?

16 A. Yes.

17 Q. So back to my original question  
18 because that wasn't quite -- I appreciate  
19 that information, but that wasn't quite the  
20 answer.

21 Is there any paper you can  
22 point to that you believe reaches the  
23 conclusion -- I'll change it a little bit --  
24 that reaches the conclusion that the risks of

1 TTVT® outweigh the benefits so that it never  
2 should have been sold?

3 A. I don't think that a lot of  
4 surgeons have the viewpoint that I have  
5 because they're not seeing these women with  
6 all these complications. Even I have not  
7 reported all my complications. Not my  
8 complications, the patients that present.

9 So until that paper is written,  
10 I don't think that there's anyone that's  
11 going to support that view just yet.

12 Q. So the answer to my question is  
13 you're not able to point to any study or any  
14 literature or any paper that expresses the  
15 opinion that you have that the risks of TTVT®  
16 outweigh the benefits so that it never should  
17 have been sold?

18 A. No paper that I know of.

19 Q. Now, how many TTVT®'s have you  
20 removed?

21 A. I can tell you what it was in  
22 2015. 34 retropubic.

23 Q. Okay. Do you have any estimate  
24 as to how many you've removed in your career?

1 A. Several hundred.

2 Q. Okay. Which has been studied

3 more long term, the TVT® or the Desara sling?

4 A. TVT®.

5 Q. Are you familiar with the

6 Nilsson 17-year study on the TVT®?

7 A. I think I am.

8 Q. Okay. Is that referenced in

9 your report anywhere on TVT®?

10 A. I don't think so.

11 Q. You're aware of a -- it's a

12 17 -- it's a study that followed women for up

13 to 17 years with the TVT® and reported

14 results.

15 You know which study I'm

16 talking about or not?

17 A. I do.

18 Q. Okay.

19 A. I think there was two of them.

20 I was hesitating for a second because I think

21 there's a 2008 paper and there's one that

22 came a few years after that. I think you're

23 referring to the 2017 paper -- or is it 2017

24 paper -- no, 17 years.

1 Q. We're not into 2017 so it can't  
2 be a 2017 paper.

3 A. No, I do recall reading the  
4 paper.

5 Q. Can you tell me why that paper  
6 is not referenced in your report?

7 Let me back up. Let me  
8 withdraw the question and ask this.

9 In your report, Exhibit 2,  
10 about the TVT®, did you attempt to get a fair  
11 and balanced assessment of the issues related  
12 to the TVT®?

13 A. I did.

14 Q. Okay. Did you in the report  
15 reference any literature that would be  
16 contrary to your opinion that the risks of  
17 the TVT® outweigh the benefits?

18 Did you reference any papers  
19 like that in your report?

20 A. I did.

21 Q. Okay. And did you reference  
22 all of the papers in your report that would  
23 be contrary to that opinion?

24 MR. MATTHEWS: Well, I

1 didn't -- object to the form of the  
2 question.

3 THE WITNESS: There are so many  
4 papers on TVT®, it's not possible to  
5 reference all the papers.

6 QUESTIONS BY MR. BALL:

7 Q. Okay. Why did you not  
8 reference the Nilsson 17-year study paper?

9 A. I have a little problem with  
10 that paper. That paper started with 90  
11 patients, if I remember the one that's  
12 correct, and by the time they followed those  
13 patients, half -- they only followed half,  
14 which was 45 patients. That's not an  
15 adequate sample of a longitudinal study.

16 Q. Which paper referenced in your  
17 report do you believe does not support your  
18 conclusion that the risks of TVT® outweigh  
19 the benefits?

20 A. That would be the Thomas study,  
21 trial of midurethral sling.

22 Q. What does it say?

23 A. They compared retropubic sling  
24 to TOT to see if they both kind of were

1 equal. Partially because there's so many  
2 retropubic injuries and traumas from passage  
3 of those trocars, which, in my opinion, is  
4 related to the technique, and that report  
5 shows that at one year it seems like both  
6 slings are pretty equal. That's a good  
7 paper.

8                             The problem with the paper is  
9 it's only one year. It really didn't look at  
10 all the issues that occur years later. Most  
11 of these women that I'm seeing in my practice  
12 aren't showing up a year after a sling.  
13 They're showing up five, six, seven, eight,  
14 nine years later, and some of these problems  
15 have persisted for years.

16                         Q.           The Thomas paper did not  
17 address the risk versus benefits of just the  
18 TVT®, did it?

19                             It was a comparison between the  
20 TVT® and the TVT-O?

21                         A.           TVT®, TVT-O and Monarc.

22                         Q.           Is there anywhere in Exhibit 2  
23 where you expressed criticism of the  
24 technique or instrumentation with respect to

1 the TVT®?

2 A. There is.

3 Q. Would you show me where that  
4 is?

5 A. Sure.

6 It's on page 9. It starts on  
7 page 9.

8 It says the force required to  
9 implant the TVT® with the metal introducers  
10 deforms the mesh and the mesh can also deform  
11 after implantation. The design of the TVT®  
12 trocar, size, arc, handle with the TVT® mesh  
13 is a design mismatch for the pelvis --

14 Q. I understand.

15 I didn't get that one. Now  
16 with your explanation earlier, I understand  
17 what you're saying there.

18 A. Okay.

19 Q. So I appreciate that.

20 A. Okay.

21 Q. Do you believe that most  
22 doctors that -- well, strike that.

23 The TVT® has been used millions  
24 of times in surgery over the years, true?

1           A.       I don't -- I'm sure. I don't  
2       know the exact number. I'll take your word  
3       for it.

4           Q.       You wouldn't disagree with  
5       that?

6           A.       No.

7           Q.       And the great majority of those  
8       times that it has been used, it's been  
9       successful?

10          A.       I don't know what the overall  
11       success rate in those millions is.

12          Q.       The great majority of the time  
13       that the TTVT® has been used in surgery, it's  
14       been used with the instrumentation and the  
15       technique recommended by Ethicon, true?

16          A.       I don't know anyone else that's  
17       using the technique that I'm using.

18          Q.       Okay.

19          A.       Except my partner. I am sorry.

20          Q.       You don't know anyone else  
21       that's using any different technique than  
22       what's recommended by the --

23          A.       No. As I mentioned earlier,  
24       it's not something that I discuss with folks

1 a lot.

2 Q. Do you have an opinion as to  
3 what the success rate is with the -- if done  
4 by a surgeon using the technique and  
5 instrumentation recommended by the  
6 manufacturer, do you have an opinion as to  
7 what the success rate is with the TVT®?

8 A. I do.

9 Q. Okay. What is that opinion?

10 A. The original success rate by  
11 Ulmsten was basically 85 percent cure. It  
12 was sadly 11 percent improvement. But it's  
13 85 percent cure, about 7 percent improvement,  
14 about 7, 8 percent didn't have an  
15 improvement. That was original data by  
16 Ulmsten.

17 The data by the Thomas trial  
18 was a little bit less.

19 Q. So what is your opinion with  
20 regard to the success rate of the TVT®, if  
21 you have an opinion?

22 Based upon review of the  
23 literature, your own knowledge, do you have  
24 an opinion as to what the success rate is

1 with the TTVT®?

2 A. So my --

3 MR. MATTHEWS: Hold on. Object

4 to the form because I don't know what

5 you mean by the definition of "success

6 rate."

7 QUESTIONS BY MR. BALL:

8 Q. Okay. Go ahead.

9 A. I read the papers, and I see  
10 numbers from 40 to 90. So my opinion is  
11 based on the success rate of those individual  
12 groups of patients that are reported. I have  
13 a very biased view because I see patients  
14 that have failure with leaking. And if  
15 you're only measuring the success rate, not  
16 leaking, it's about what those papers report.

17 Q. Okay. So let me make sure. So  
18 your opinion would be that the success rate  
19 with TTVT® is approximately 85 percent cure  
20 and about 7 percent improvement, and about 7  
21 or 8 percent no improvement?

22 A. That's right. For the  
23 treatment of the leaking part.

24 Q. Okay. I think that's going to

1 lead to my next question.

5                           Do you have an opinion as to  
6 the percentage of complications? Is that  
7 what you're going to be talking about, or no?

8 A. No.

9 Q. What do you mean when you said  
10 for the percentage of the leaking part?

11 A. That's what 85 percent success  
12 refers to, which is the testing they did  
13 afterwards on pad testing and cough stress  
14 test. That's how they measured the success.

15 Q. So if it stopped completely,  
16 that was a cure?

17 A. Yes.

18 Q. And if it improved it, that was  
19 an improvement?

20 A. Correct.

21 Q. All right. I'm with you.

Now, new question, do you have  
an opinion as to the complication rate -- an  
by that I don't mean temporary, I mean

1 long-term complication rate -- with TTVT®?

2 A. I don't think that anyone can  
3 answer that question.

4 Q. Okay. So you don't have an  
5 opinion?

6 A. I have an opinion.

7 Q. Okay. Your opinion, I can't  
8 answer it?

9 A. Well, I can't give you a  
10 percentage. I guess what I was thinking, to  
11 be very transparent, give you a number like I  
12 gave you for the treatment of incontinence.  
13 I can't give you a number because I'm sure  
14 someone knows the denominator of how many  
15 slings went in, but -- or maybe the  
16 numerator, no one knows the other number of  
17 how many people are having problems. I know  
18 what problems I see, and I've not reported  
19 all these for any manufacturer.

20 I know other doctors are taking  
21 care of problems. But there hasn't been a  
22 national registry in the United States that  
23 looks at how many went in and what the  
24 problems are.

1 Q. Okay.

2 A. And until that happens, it's  
3 hard to estimate.

4 Q. Do you have -- do you tell your  
5 patients what the likelihood of complications  
6 is with -- in terms of percentages with an  
7 SUI procedure?

8 A. The way I do it and what I do,  
9 yes, I do.

10 Q. What do you say?

11 A. 2 percent retention rate.

12 Q. 2 percent will have a retention  
13 problem?

14 A. 2 percent will have a retention  
15 problem requiring an adjustment of the sling,  
16 not a removal.

17 Q. Okay. Can you tell me anything  
18 else about complication rates?

19 A. Bleeding.

20 Q. Can you give percentages on any  
21 of these?

22 A. It's very rare. I've not  
23 transfused a patient from an SUI procedure in  
24 years.

1 I talk about bladder injury  
2 because I get patients that have previous  
3 slings or previous other procedures.

4 Q. Now, I'm going to get into all  
5 of the possible complications here in a  
6 minute.

7 What I was asking is in terms  
8 of in your practice over the last 10 or  
9 15 years, have you given patients any  
10 percentage? And you mentioned that you tell  
11 them there's a 2 percent urinary retention.

12 A. Incomplete bladder emptying  
13 retention.

14 Q. Any other percentages that you  
15 give them?

16 A. No.

17 Q. In terms of complications?

18 A. That's the only one, because  
19 all the other things with the technique I  
20 employ are exceedingly rare.

21 Q. Do you ever use non-mesh for  
22 SUI?

23 A. Yes, I do.

24 Q. How often?

1                   Like if you take all of your  
2       SUI treatments in the last few years, what  
3       percentage has been non-mesh?

4                   A.       It's going up. It's about  
5       15 percent now.

6                   Q.       15?

7                   A.       15.

8                   Q.       What methods do you use?

9                   A.       Either autologous fascia or  
10      cadaveric fascia.

11                  Q.       Autologous means what?

12                  A.       I remove a little bit of fascia  
13      from the patient's own body.

14                  Q.       Where do you remove it from?

15                  A.       Either the abdomen or the leg.  
16      It depends whether they have had hip  
17      replacement or if they've had multiple  
18      surgeries.

19                  Q.       And what do you do, fashion a  
20      sling out of that?

21                  A.       Yes. It's a basically a small  
22      little strip.

23                  Q.       And then cadaveric is the same?

24                  A.       Yes.

1 Q. It's a piece of tissue from  
2 another body?

3 A. Yes.

4 Q. That you fashion into a sling?

5 A. Yes.

6 Q. How is it -- or why is it that  
7 you use one of those two?

8 Do you use either one of those  
9 more than the other?

10 A. I give those options to the  
11 patient. Every patient with SUI now has a  
12 conversation regarding mesh and complications  
13 and what they've seen on the news and heard  
14 on the radio.

15 Q. Do you have to use sutures in  
16 connection with those autologous or cadaveric  
17 slings?

18 A. The approach I use is exactly  
19 the same whether I'm using synthetic,  
20 autologous or cadaver.

21 Q. Do you have to use sutures?

22 A. Yes.

23 Q. And those are polypropylene  
24 sutures?

1 A. No.

2 Q. What are they?

3 A. Polyglyconate suture. It's  
4 Vicryl Polysorb.

5 Q. They're absorbable?

6 A. Yes.

7 Q. This 15 percent, is this just  
8 patient's choice?

9 A. Yes.

10 Q. Or do you recommend one versus  
11 the other?

12 A. I give them the options.

13 Q. Okay. And so that 15 percent  
14 now these days are choosing the cadaveric?

15 A. Yes.

16 Q. Or the autologous?

17 Am I saying that right,  
18 autologous?

19 A. Yes.

20 Q. When did you start that?

21 A. I've always done autologous  
22 slings.

23 Q. No. I meant when did you start  
24 giving them, saying, "Here are the three

1 choices, what do you want to do?"

2 When did you start that?

3 A. The last few years. I can't  
4 remember exactly when.

5 Q. Okay. Other than any other  
6 type of -- you don't use the Burch procedure  
7 anymore?

8 A. If they ask, but typically I'm  
9 doing a lot of vaginal surgery and the Burch  
10 procedure would necessitate an incision. If  
11 I'm doing --

12 Q. An abdominal incision?

13 A. Yes. If I'm doing an abdominal  
14 approach, when I'm right there.

15 The reason I switched to a less  
16 invasive sling was not to make the abdominal  
17 incisions and et cetera.

18 Q. Right.

19 So you don't do very many  
20 Burches anymore?

21 A. I never really did.

22 Q. And how about MMK?

23 A. It's a variation of a Burch. I  
24 always preferred the Burch, but the MMK is an

1 option.

2 Q. How many of those do you think  
3 you've done in the last ten years?

4 A. Last ten years?

5 30, 40.

6 Q. And that was when you already  
7 had to have an abdominal incision anyway?

8 A. Yes.

9 Q. Okay. Is acute or chronic pain  
10 a risk of a non-mesh SUI surgery?

11 A. Acute pain can be.

12 Q. Not chronic pain?

13 A. Huh-uh.

14 Q. Is acute or chronic pain with  
15 intercourse a potential risk of non-mesh  
16 surgery?

17 A. No.

18 Q. So having pain with intercourse  
19 after an SUI surgery, non-mesh, is not a risk  
20 at all?

21 A. It's virtually unheard of.

22 Q. Is vaginal scarring a risk with  
23 non-mesh SUI surgery?

24 A. Typically, no.

1 Q. Is infection a risk with  
2 non-mesh SUI surgery?

3 A. You can get a hematoma and  
4 infection, yes.

5 Q. Is urinary frequency, urgency,  
6 dysuria, retention or obstruction or  
7 incontinence, are those risks of non-mesh SUI  
8 surgery?

9 A. Yes.

10 Q. Are UTIs as a result of  
11 retention a risk of non-mesh SUI surgery?

12 A. Yes.

13 Q. Is organ or nerve damage a risk  
14 of non-mesh SUI surgery?

15 A. Can be, yes.

16 Q. Okay. Is bleeding a risk with  
17 non-mesh SUI surgery?

18 A. Absolutely.

19 Q. Wound complications?

20 A. Sometimes.

21 Q. Inflammation?

22 A. Short-term inflammation.

23 Q. Fistula formation?

24 A. No.

1 Q. How about are neuromuscular  
2 problems in the pelvic floor muscles, the  
3 lower extremities or the abdominal area, are  
4 those risks of non-mesh SUI surgery?

5 A. I'm not sure I understand that  
6 last question.

7 Q. Okay. You don't know what a  
8 neuromuscular --

9 A. I do, but they were all kind of  
10 lumped together.

11 Q. Okay. Can you have -- let me  
12 unlump then.

13 Can you have neuromuscular  
14 problems in the pelvic floor muscles related  
15 to non-mesh SUI surgery?

16 A. You can.

17 Q. How about neuromuscular  
18 problems in the lower extremities?

19 A. Not related to the procedure,  
20 no.

21 Q. What about in the abdominal  
22 area?

23 A. If you're harvesting the tissue  
24 from there, yes.

1 Q. Okay. Is recurrent surgery a  
2 risk of non-mesh SUI surgery?

3 A. Yes.

4 Q. And is a foreign body response  
5 from sutures a risk of a non-mesh SUI  
6 surgery?

7 A. If you use a polypropylene  
8 suture.

9 Q. Okay. Are sometimes  
10 polypropylene -- is that an acceptable  
11 practice to use polypropylene sutures in  
12 non-mesh SUI surgery?

13 A. Some do.

14 Q. It's acceptable?

15 A. I don't know if it's  
16 acceptable; some do.

17 The tensile strength is  
18 different. Most will use a non-monofilament  
19 suture because if you touch it with the  
20 forceps or you tie it, it fractures and it  
21 breaks and it fails. So most of us that do  
22 different kinds of surgeries will use a  
23 non-monofilament polypropylene suture.

24 Q. And is that type of suture

1 subject to potential foreign body responses?

2 A. In the short term.

3 Q. That type of suture, can it

4 have erosion or exposure?

5 A. Sometimes.

6 Q. In a non-mesh SUI surgery?

7 A. Yes.

8 Q. And is contraction of tissues a

9 risk in a non-mesh SUI surgery?

10 A. No.

11 Q. Okay. Now, is there any risk

12 related to the mesh that is present with the

13 TVT® mesh that is not present with the Desara

14 mesh?

15 A. Yes.

16 Q. Okay. What is that?

17 A. The Desara does not fray. It's

18 a very stable weave.

19 Q. Okay. By fray, you mean what?

20 On the edges?

21 A. On the edges. It doesn't

22 deform when you pull on it.

23 Q. Okay. So have you ever seen

24 evidence of fraying in any TVT® that caused

1 any clinical problem in your view?

2 A. Yes.

3 Q. Okay. Tell me about that.

4 A. So when I first started --

5 first of all, when it first became blue is

6 when it really became apparent. You would

7 open up the anterior vaginal wall, you would

8 actually see little curly pieces of portions

9 of mesh stuck to the inside of the vaginal

10 wall.

11 Q. And what clinical issues were  
12 those causing?

13 A. I'm getting there.

14 Q. Okay.

15 A. I'm getting to that. So that  
16 was the first observation. So that came off  
17 of the implant.

18 So when you lose part of the  
19 weave, the mesh elongates and ropes and cords  
20 and twists and rolls, and as soon as it does  
21 that, it goes from being whatever its gram  
22 per meter squared weight is, it's immediately  
23 doubled.

24 And the additional part that is

1 very, very important is that the pores  
2 coalesce. So whatever the pores -- when it's  
3 sitting on the table before it's implanted,  
4 once it's implanted with any type of force on  
5 it, the pores -- the effective pore size  
6 becomes very small.

7 Q. Have you ever measured the  
8 effective pore size on a TVT®?

9 A. Personally, no.

10 Q. Okay. Are you aware of any  
11 study that has done that?

12 A. I've seen documentation inside  
13 the Ethicon documents that tells me what the  
14 pore size it.

15 Q. In vivo?

16 A. Not in vivo.

17 Q. Okay. So do you have an  
18 opinion as to what the effective pore size in  
19 vivo is in a TVT®?

20 A. I do.

21 Q. Okay. What is it?

22 A. It's less than before it got  
23 implanted.

24 Q. Do you have anything more

1      precise than that?

2            A.         Sometimes there is no pores.

3      It completely coalesces very easily. The  
4      stretchability of the mesh is desirable, but  
5      the problem with it is that it deforms so  
6      much that it -- there's virtually no pore.

7      It's a tiny little slit.

8            Q.         By the Amid classification is  
9      the mesh in TVT® a large pore mesh?

10          A.         By the Amid classification,  
11      yes.

12          Q.         In your view is it generally  
13      recognized that the TVT® is a large pore  
14      mesh?

15          A.         Oh, by Ethicon's documentation  
16      is considered microporous.

17          Q.         In the medical community, is it  
18      generally -- is the TVT® mesh generally  
19      regarded as a macroporous mesh?

20          A.         Before it's implanted, yes.

21          Q.         In the medical community, is  
22      the TVT® mesh generally regarded as  
23      lightweight?

24          A.         No.

1 Q. Which is lighter weight, the

2 Desara or the TVT®?

3 A. They're the same weight.

4 Q. Okay. Which has larger pores,

5 the Desara or the -- what do you call it, the

6 opposite of in vivo?

7 When it comes out of the box,

8 which has larger pores, Desara or TVT®?

9 A. Desara.

10 Q. Do you know the dimensions of

11 the Desara sling?

12 A. You mean the pore size?

13 Q. Yeah.

14 A. Yeah, it's approximately

15 1,200 microns.

16 Q. What is the size of the TVT®

17 pores?

18 A. About a thousand microns.

19 Q. What is the size -- what was

20 the size of the Uretex?

21 A. 1,160.

22 Q. Do you have an opinion as to

23 what the pore size in the body is of the

24 Desara or the Uretex?

1 A. I do.

2 Q. What is it?

3 A. It's greater than 1,160,

4 greater than 1,200.

5 Q. They get bigger?

6 A. I make them bigger.

7 Q. Okay. How do you do that?

8 A. I am sorry, I was a little  
9 remiss. I didn't mention that when I place  
10 the sling in the midurethra, I sew it in a  
11 configuration -- I attach it with absorbable  
12 sutures in a configuration that opens the  
13 pores up more.

14 Q. Is that recommended in the IFUs  
15 for either Uretex or Desara?

16 A. No.

17 Q. So if you didn't do that  
18 technique, do you have an opinion as to what  
19 the effective pore size would be for the  
20 Desara or the Uretex?

21 A. I do not.

22 Q. It would be something less than  
23 they're designed?

24 A. You would think so.

1 Q. Okay.

2 A. And when I tried to do that  
3 with TVT®, I couldn't because of the edges  
4 fraying.

5 Q. Okay.

6 A. When I tried those two. But I  
7 always thought that the pores on all the  
8 slings that came after the Ethicon Mersilene  
9 were small because I was spoiled. I was used  
10 to seeing large pores where I could open the  
11 tissue up and if you held and just looked for  
12 a second, you could actually see the turgor  
13 pressure of the tissue coming through the  
14 pores before the operation was done. So  
15 having that visual confirmation and then not  
16 having it with polypropylene made me think.

17 Q. Did you think the pores, the  
18 preimplantation pore size, was larger in  
19 Mersilene?

20 A. It's definitely larger.

21 Q. What is it?

22 A. 23 -- 2.3 millimeters.

23 Q. 2,300?

24 A. Yes.

1 Q. Microns?

2 A. Yes.

3 Q. Okay. I can't remember what  
4 you said. The Desara and the Uretex, were  
5 those lightweight meshes?

6 A. So the Uretex was 81 grams per  
7 meter squared. So that was lighter than all  
8 the others. So if you take a look at all the  
9 current slings that are on the market,  
10 they're all at about 100. Boston Scientific,  
11 Desara, Align.

12 Q. And TVT®?

13 A. Yes, and they're all too heavy.

14 Q. Okay.

15 A. They're all too heavy.

16 Q. Everything that's on the market  
17 today is too heavy?

18 A. Everything that's on the market  
19 is a problem.

20 Q. Is the pore size for the -- not  
21 counting you're spreading it out when you  
22 implant it, is the pore size acceptable on  
23 the Desara as far as you're concerned?

24 A. Yes.

1 Q. Could you do the same spreading  
2 out thing with the TVT®?

3 A. You can't.

4 Q. Why?

5 A. Because the material frays.

6 It's not just the mesh. It's not just the  
7 filament that's woven. It's the weave  
8 configuration, it's all proprietary.

9 So the first thing I did when  
10 TVT® was cleared was I pulled on it on a  
11 piece of paper. Oh, my God, it's falling  
12 apart. And that's why I didn't want to try  
13 it.

14 Q. It was falling apart, or what  
15 do you mean by that?

16 A. Yeah, it was -- when you --

17 Q. Pieces were coming off?

18 A. Pieces were coming off.

19 Drastically.

20 Q. Have you read any study that  
21 the TVT® mesh falling apart, pieces coming  
22 off it, have been a clinical problem for  
23 anyone?

24 A. I've read in the Ethicon

1 documents that people complained that it was  
2 fraying.

3 Q. Have you read any published  
4 scientific literature where fraying and the  
5 TVT® mesh falling apart was recognized to be  
6 a problem?

7 A. Not yet.

8 Q. Okay. Talking about the  
9 Ethicon documents, do you, as a scientist --  
10 well, first of all, have you seen any Desara  
11 internal documents?

12 A. I have not.

13 Q. Okay. Have you seen any BARD  
14 internal documents?

15 A. Not for slings.

16 Q. About their slings?

17 A. Not slings, no.

18 Q. Do you generally in reaching  
19 medical opinions rely upon internal e-mails  
20 and internal documents?

21 A. No.

22 Q. Have you written -- have you  
23 published in the medical field?

24 A. Yes.

1 Q. Have you ever cited an internal  
2 document when writing in a peer-reviewed  
3 journal?

4 A. No.

5 Q. Do you think citations of  
6 internal company documents in a peer-reviewed  
7 journal would be acceptable?

8 A. No.

9 Q. Okay. Have you ever been a  
10 reviewer?

11 A. Yes.

12 Q. Okay. And if you were given a  
13 paper that based opinions upon internal  
14 company documents, would you reject that  
15 paper as a reviewer?

16 A. It's a good question. I don't  
17 know what I would do. I would find it very  
18 different because you don't normally have  
19 that.

20 Q. Do you believe that you gave a  
21 fair representation of the overall Ethicon  
22 documents that you cited in your paper?

23 A. Yes.

24 Q. How many Ethicon documents did

1 you review?

2 A. I reviewed everything they sent  
3 me. I can't even tell you.

4 Q. That's a key part.

5 Did you review anything that  
6 wasn't sent to you by a lawyer, an Ethicon  
7 document that wasn't sent to you by a lawyer?

8 A. No. I wouldn't have access to  
9 it.

10 Q. Do you know how many they sent  
11 you?

12 A. Documents?

13 Q. Yes.

14 A. Thousands and thousands of  
15 pages.

16 Q. Is everything they sent you on  
17 the thumb drive or the CD, all the Ethicon  
18 documents they sent you on the CD or the  
19 thumb drive?

20 A. I believe that's what  
21 Mr. Matthews said.

22 Q. Do you know whether there were  
23 Ethicon documents that weren't sent to you  
24 that would paint a different picture than

1 what you've cited in your report?

2 Do you know that?

3 A. I don't know that.

4 Q. Were you given any testimony of  
5 Ethicon witnesses to review?

6 A. Yes.

7 Q. Okay. Was that also sent to  
8 you by the lawyer?

9 A. Yes.

10 Q. Is what was sent to you also on  
11 the thumb drive and the CD?

12 A. I've not seen the thumb drive.

13 Q. Okay.

14 A. I've not opened it. The CD, I  
15 believe, are my reports only.

16 Q. Does your report refer to all  
17 of the deposition testimony that you've been  
18 given?

19 A. No.

20 Q. Okay. How do I know which  
21 testimony you've been given?

22 A. I guess it's on the thumb  
23 drive.

24 Q. Okay. And so if there was --

1 did you read all of the Ethicon testimony  
2 that's been given?

3 A. Yes.

4 Q. It was on the thumb drive?

5 A. Yes.

6 Q. Every word of it?

7 A. To the best of my recollection,  
8 yes, sir.

9 Q. Okay. Do you know whether you  
10 were given all of the Ethicon testimony about  
11 these documents?

12 A. I don't know.

13 Q. Okay. In order to do a --  
14 strike that. Back up.

15 To give a fair and balanced  
16 report, it would not be appropriate to  
17 cherry-pick from Ethicon testimony or Ethicon  
18 documents, true?

19 A. True.

20 MR. BALL: I like to take a  
21 break every hour.

22 Is that okay with everybody?

23 MR. MATTHEWS: You're right in  
24 the middle of a question.

1 MR. BALL: No, I was done with  
2 that question.

3 MR. MATTHEWS: Yeah, that's  
4 fine.

5 (Off the record at 10:04 a.m.)

6 QUESTIONS BY MR. BALL:

7 Q. Doctor, your reports that have  
8 been submitted in this case, Exhibits 2 and  
9 3, you would not submit those reports to a  
10 peer-reviewed journal for publication, true?

11 A. They're not prepared for  
12 publication, no.

13 Q. And you would not use the same  
14 technique and approach in preparing those  
15 cases that you would if you were preparing a  
16 scientific paper to be presented to  
17 colleagues, true?

18 A. Yes. This is completely  
19 different.

20 Q. Okay. Now, the fraying that  
21 you mentioned, did the Uretex have any of  
22 that propensity?

23 A. No, it had a weave  
24 characteristic that I look for. So after

1 TTVT® came out -- and I remember it was Will  
2 Irby that came and talked to me about it -- I  
3 didn't find another product that I thought  
4 met my characteristics, qualifications -- the  
5 characteristics of the Mersilene, until I saw  
6 Uretex, and the weave was in such a way that  
7 it did not fray.

8 Q. Now, was the Uretex heavier or  
9 lighter -- excuse me, the Mersilene, was that  
10 heavier or lighter?

11 A. Much lighter. 33 grams per  
12 meter squared.

13 Q. And why was it that the  
14 Mersilene -- what about it caused it to  
15 deteriorate early as you said earlier?

16 A. Well, I don't know that it  
17 deteriorated early. I didn't have those  
18 issues. But as it became more important to  
19 have Amid-type classifications -- and the  
20 Amid classification really was very important  
21 after the Gore-Tex because you needed  
22 75 microns or larger to have macrophages  
23 fight the infection.

24 Q. Mersilene had that, didn't it?

1           A.       It did, but it was  
2       multi-filament and that was the problem with  
3       it, and I wanted to do the best for my  
4       patients, and knowing that, I switched.

5           Q.       So the standard became -- the  
6       acceptable standard was to use a lightweight,  
7       monofilament, macroporous mesh for slings,  
8       correct?

9           A.       Macroporous, monofilament. The  
10      weight issue really didn't become important  
11      for some time after that.

12          Q.       Would you classify all of the  
13      Uretex and the TVT® and the Desara all as  
14      lightweight or heavyweight?

15          A.       They're all heavyweight.

16          Q.       Are they recognized in the  
17      medical community to be heavyweight or  
18      lightweight?

19          A.       Heavyweight.

20          Q.       Okay. Now, as we've said  
21      earlier, obviously, at least hundreds, and  
22      probably thousands, of surgeons have used  
23      TVT® for SUI, true?

24          A.       Yes.

1 Q. Okay. Are you critical of all  
2 of those surgeons for using a product that  
3 should never have been on the market?

4 A. I don't think they knew all of  
5 the things I knew or have my experience so I  
6 can't be critical of them.

7 Q. And by your experience, that  
8 means the one or two times you tried it?

9 A. No. No. No.

10 My experience with being a  
11 surgeon of last resort that sees patients  
12 that have problems.

13 For example, even in this  
14 community, Dr. Klutke was a preceptor for  
15 TVT®, and he would do surgery on patients,  
16 and those patients would have a problem. And  
17 they would then come to me. And I frankly  
18 would ask because Dr. Klutke was a professor  
19 of urology. He was one of the earlier  
20 adapters of the TVT®. He went to France and  
21 all of those things. And I am not sure he  
22 knew how to deal with the complications or  
23 I'm not sure exactly why, but those patients  
24 ended up with me, and I started to see a

1 pattern of problems. The more I did that,  
2 the more patients found out and more docs  
3 found out I could help these problems and  
4 pretty soon I'm in the situation I'm in.

5 Q. Have any of the complications  
6 that you've seen with the TVT® been related  
7 to improper surgical technique?

8 A. They follow the technique  
9 that's described. When I read the op notes,  
10 it reads like the way Ethicon set up the IFU.

11 Q. Well, can a surgeon attempt to  
12 follow what is set forth in the Ethicon IFU  
13 and make a mistake and not -- and then that  
14 leads to a complication?

15 A. They can change a technique  
16 like I've changed it, but can that be a  
17 mistake in the hands of others? I assume so.

18 Q. So is it fair to say that your  
19 opinion that the TVT® should never have been  
20 sold based upon you using it one or two times  
21 and -- the fact that it was based primarily  
22 upon using it one or two times and what you  
23 see from the people with complications?

24 A. Would you repeat that?

1 Q. Yeah.

2 Is your opinion that the TVT®  
3 never should have been on the market based  
4 upon the one or two times you tried it and  
5 the complications you've seen with people  
6 that have come to you postsurgery?

7 A. Plus everything that I've read  
8 to date.

9 Q. What is it that you've read to  
10 date specifically that -- or what are the two  
11 or three things you've read to date that are  
12 most important to you in your opinion that it  
13 never should have been on the market?

14 A. So I'm having a little  
15 difficulty even in my own practice anymore  
16 using polypropylene knowing that there's a  
17 chronic foreign body reaction, knowing that  
18 polypropylene degrades. I don't know how I'm  
19 going to personally deal with that. I'm  
20 going to have come up with an alternative  
21 source. Maybe going to completely cadaver  
22 types of slings.

23 But knowing what I know now  
24 after reading all of this, knowing that there

1       were alternatives available for different  
2       products to be developed, I may have put in a  
3       bunch of slings and I may have, you know,  
4       done it for -- not knowing what the  
5       consequences were.

6                 Q.       Did Mersilene have a foreign  
7       body reaction?

8                 A.       It did.

9                 Q.       What was it made out of?

10                A.       Polyethylene terephthalate.

11                Q.       Was the foreign body reaction  
12       any different with Mersilene than with  
13       polypropylene?

14                A.       I'm sure it's different.

15                Q.       Worse? Better?

16                A.       I don't know. I haven't seen  
17       any data on that.

18                Q.       You mentioned foreign body  
19       reaction.

20                         The other thing was, what,  
21       deterioration of polypropylene, is that what  
22       you said?

23                A.       Yes.

24                Q.       Did Mersilene deteriorate?

1 A. Not like polypropylene.

2 Q. Okay. So the polypropylene  
3 slings that you've used, aside from the one  
4 or two times with TVT®, essentially are the  
5 Uretex and Desara?

6 A. Yes.

7 Q. And they're subject to chronic  
8 foreign body reaction?

9 A. Yes.

10 Q. They're subject to  
11 deterioration?

12 A. Yes.

13 Q. You're still using them?

14 A. I am.

15 Q. Have for 13 years?

16 A. Yes.

17 Q. Implanted thousands?

18 A. Yes.

19 Q. Have you ever told any of your  
20 patients that you shouldn't have used  
21 polypropylene because of its deterioration or  
22 foreign body reaction propensities?

23 A. I'm saying that to patients  
24 now.

1 Q. And you started that a year or  
2 so ago?

3 A. Yes.

4 Q. What problems does the chronic  
5 foreign body reaction cause?

6 Let me withdraw that question  
7 and ask something better.

8 You can have a chronic foreign  
9 body reaction that doesn't cause any symptoms  
10 to the patient, true?

11 A. I'm sure you can to some  
12 extent, yes.

13 Q. And are you aware of any  
14 studies that have shown that a chronic  
15 foreign body reaction causes problems for  
16 patients?

17 A. Yes.

18 Q. What is that?

19 A. The problem is that it  
20 contracts. The chronic foreign body reaction  
21 and the -- a lot because of the pore size it  
22 creates this granuloma-type of effect and  
23 entraps little nerves. Instead of the pores  
24 being far apart and the nerves being padded

1       with fat infiltration, the nerve gets  
2       squeezed over time and that chronic  
3       inflammation continues to contract and it  
4       creates contraction in the vagina. So when  
5       you examine these patients, you feel a  
6       tethering effect like a banjo string or a  
7       rope, and that causes pain.

8           Q.       Do you have acute or chronic  
9       pain with Desara and Uretex slings?

10          A.       Can you? Yes.

11          Q.       That's a risk?

12          A.       Yes.

13          Q.       And acute or chronic pain with  
14       intercourse, is that a risk of SUI surgery  
15       with Uretex or Desara?

16          A.       Can I qualify the answer?

17          Q.       You can say yes first and then  
18       qualify.

19          A.       Yes, you can, but that's  
20       because they follow the manufacturer's  
21       instructions and don't do exactly what I do.

22                   In my patients, it's basically,  
23       no, it doesn't happen.

24                   Could you have it happen? One

1       in a thousand, one in 22,000.

2           Q.       With your technique?

3           A.       With my technique.

4                   But it's not 10, 12 percent.

5           Q.       So let me make sure, as I go

6                   through these questions what I'm asking for

7                   is with the Desara or the Uretex, if you

8                   follow the manufacturer's instructions and

9                   you use the manufacturer's technique.

10          A.       Okay.

11          Q.       That's the premise.

12          A.       Okay.

13          Q.       All right. So can you have

14          acute and chronic pain with Desara and

15          Uretex?

16          A.       Following the manufacturer's

17          technique, yes.

18          Q.       Can you have acute and chronic

19          pain with intercourse with Desara and Uretex?

20          A.       Yes.

21          Q.       Can you have vaginal scarring

22          with Uretex and Desara?

23          A.       Yes.

24          Q.       Can you have infection?

1                   Let me -- is infection a risk

2       with surgery using Uretex and Desara?

3                   A.       Yes.

4                   Q.       Are urinary problems such as

5       urinary frequency, urgency, dysuria,

6       retention, obstruction and incontinence, are

7       those potential risks with Desara and Uretex?

8                   A.       Yes.

9                   Q.       Organ and nerve damage, are

10      those potential risks with Desara and Uretex?

11         A.       Yes.

12         Q.       Postoperative bleeding, is that

13      a potential risk with Uretex and Desara?

14         A.       Yes.

15         Q.       Wound complications, is that a

16      potential risk with Desara and Uretex?

17         A.       Yes.

18         Q.       Inflammation, is that a

19      potential risk?

20         A.       Yes.

21         Q.       Fistula formation, is that a

22      potential risk with Uretex and Desara?

23         A.       Yes.

24         Q.       Neuromuscular problems with the

1      pelvic floor muscles, is that a potential  
2      risk with Uretex and Desara?

3            A.       Yes.

4            Q.       Lower extremity pain, is that a  
5      potential risk?

6            A.       No.

7            Q.       Abdominal pain, is that a  
8      potential risk?

9            A.       Yes.

10          Q.       Need for additional surgery, is  
11      that a potential risk with Uretex and Desara?

12          A.       Yes.

13          Q.       Failure of the procedure, is  
14      that a potential risk with Uretex and Desara?

15          A.       Yes.

16          Q.       Foreign body reaction is a  
17      potential risk, chronic foreign body reaction  
18      with Uretex and Desara?

19          A.       Yes.

20          Q.       Exposure or erosion or  
21      extrusion, is that a potential risk with  
22      Desara and Uretex?

23          A.       Yes. Again, all of those  
24      following the manufacturer's instructions for

1 implantation.

2 Q. And contraction or shrinkage of  
3 tissues, is that a potential risk with Uretex  
4 and Desara?

5 A. Yes.

6 Q. All right. Now, do you have  
7 any opinion as to what the relative risks are  
8 of those things we went through for TVT®  
9 versus Uretex and Desara slings?

10 A. Following the manufacturer's  
11 instructions?

12 Q. Yes.

13 A. Okay. They're slightly higher  
14 for TVT® because of the weave design of the  
15 mesh that upon any traction it frays and  
16 literally falls apart.

17 Q. This falling apart, have you  
18 actually seen it fall apart?

19 A. Oh, yes.

20 Q. This is in your surgeries you  
21 do?

22 A. No, I have samples of mesh that  
23 I've -- I acquired almost all the mesh  
24 samples I could possibly acquire to

1 understand them.

2 Q. This is mesh that's been in the  
3 body?

4 A. No. No. No.

5 Q. Okay.

6 A. Expired, donated from reps.

7 Q. Okay. Have you seen any mesh,  
8 TVT® mesh, falling apart in the body?

9 A. Yes. Yes.

10 Q. In your explanting procedures?

11 A. Yes.

12 Q. And if I asked this, I  
13 apologize.

14 Can you point me to any medical  
15 literature where someone has described a  
16 problem with the TVT® mesh falling apart as  
17 you describe it?

18 A. You mean the fraying?

19 Q. I mean, the falling -- you said  
20 that it falls apart.

21 I want to know has anybody  
22 written a medical paper that has said, you  
23 know, this TVT® mesh falls apart when it gets  
24 in the body.

1                   Have you read that anywhere?

2                   A.       I can't recall.

3                   Q.       You can't point me to anything?

4                   A.       I cannot at this time, no.

5                   Q.       And it's certainly not in your  
6 report, true?

7                   A.       No.

8                   Q.       True?

9                   A.       True.

10                  Q.       So your only basis for saying  
11 that in the body the TVT® mesh frays so badly  
12 that it falls apart is what you've seen from  
13 your explant procedures, true?

14                  A.       Yes.

15                  Q.       Are there any samples of that  
16 in your report?

17                  A.       No.

18                  Q.       Do you have any -- if we want  
19 to say, I don't know, I've never seen such a  
20 thing, I've never heard of such a thing, we  
21 wanted to see it, what do you do?

22                  A.       I have pictures.

23                  Q.       You have pictures that aren't  
24 in your report?

1 A. Yes.

2 Q. Okay.

3 A. Lots of pictures.

4 Q. And these are -- this is mesh  
5 falling apart, not as a result of you taking  
6 it out?

7 A. No.

8 Q. Why do you think nobody else  
9 has ever written about that?

10 A. I don't know. I haven't  
11 written about it.

12 Q. Okay. So other than this  
13 tenancy -- and the reason you think it frays  
14 and falls apart is because the edge -- tell  
15 me why you think the TVT® frays and falls  
16 apart as you describe it and the other ones  
17 don't.

18 A. It has to do with the weave.

19 Q. Okay.

20 A. So when TVT® was mechanically  
21 cut early on it was clear before they made it  
22 blue, it was harder to see it. But when it  
23 became blue, it became very visible in the  
24 tissues. I have a clear recollection from

1 years ago on a slide where I'm not removing  
2 the sling, but I'm fixing the woman's  
3 prolapse after she had her sling and have the  
4 vaginal wall open and you can see a hairpin  
5 loop of mesh attached in there.

6 I probably wouldn't have seen  
7 that when it was clear. I did see it when it  
8 was clear when I first handled it early on.

9 Q. So --

10 A. So it has to do -- you know,  
11 this mesh starts as a suture, and then it  
12 goes through a machine that knits it into a  
13 big sheet, and then it gets cut.

14 So TVT® and the Boston  
15 Scientific product are somewhat similar in  
16 the fact that when you first cut the TVT®  
17 early on when it was mechanically cut, the  
18 edges would fray. It was sort of like  
19 cutting a sweater that your grandma knit and  
20 you got a cut and it started to unfray, but  
21 it wasn't on the body like a sweater. It's a  
22 strip of mesh so when you cut it and you pull  
23 on it, they would pop off.

24 Q. So the problem with the weave

1       that causes this fraying and falling apart  
2       problem is the way it's cut on the edges, is  
3       that what you're saying?

4           A.       Yes. And that's why it went to  
5       laser cut afterwards.

6           Q.       Does the laser cut have the  
7       same problem?

8           A.       To a less extent.

9           Q.       Okay. So is the laser-cut  
10      mesh, do the risks of that outweigh the  
11      benefits so that it never should have been  
12      put on the market?

13          A.       Yes.

14          Q.       Okay. For what reason?

15          A.       It's the same thing. The  
16      elasticity. It still pops apart where the  
17      laser seals it a little bit, but if you put  
18      traction on it, it pops apart.

19          Q.       So the problem you have -- I've  
20      heard two problems you have with the mesh  
21      itself. We've talked about the  
22      instrumentation issue, and we've talked about  
23      the technique.

24          A.       Yes.

1                   Q.         The mesh itself, what I've  
2         heard, is that you have two criticisms of the  
3         TVT® mesh: One is whether it's mechanically  
4         cut or laser cut, the edges are -- or the  
5         weave and the edges are susceptible to  
6         fraying and falling apart in the body, that's  
7         one, right?

8                   A.         Yes.

9                   Q.         And then number two, the pores,  
10      once they're in the body, are not big enough  
11      to allow the tissue ingrowth?

12                  A.         Yes.

13                   And three, and this applies to  
14      all polypropylene, including the  
15      polypropylene I'm implanting, was not very  
16      clear when this all came out, when this  
17      product first came out, that polypropylene  
18      degrades.

19                  Q.         Now, are you aware of any  
20      medical literature where someone has  
21      identified degradation of TVT® polypropylene  
22      as causing clinical problems for patients?

23                  A.         Well, the Clavé study looked at  
24      polypropylene TVT® and studied that that

1 causes contraction and fibro -- a chronic  
2 inflammation and scarring and shortening and  
3 shrinkage and possibly erosion.

4 Q. So your interpretation of the  
5 Clavé paper is that it says that degradation  
6 of TVT® polypropylene produces clinical  
7 problems for patients?

8 A. Yes.

9 Q. All right. Any other paper  
10 besides that?

11 A. With TVT®?

12 Q. Yes.

13 A. Not that I recall off the top  
14 of my head.

15 Q. Okay. Now I'm going to broaden  
16 it. You anticipated that.

17 Are you aware of any papers  
18 that say polypropylene in general in use with  
19 vaginal surgery degrades to such an extent  
20 that it causes clinical problems for  
21 patients?

22 A. All mesh, or mesh in general,  
23 right?

24 Q. Yes.

1 A. Yeah.

2 I am. Let me refresh my  
3 memory.

4 Q. Let me ask this.

5 A. Yes.

6 Q. Do you cite any paper in either  
7 of your reports, Exhibits 2 or 3, concerning  
8 TVT® or Gynemesh® that to support the  
9 proposition that polypropylene degrades and  
10 causes clinical problems for patients?

11 A. I don't know that there's any  
12 papers that say there's clinical problems.

13 Q. Okay. Now, by the way, how  
14 many hours did you spend just preparing for  
15 this deposition?

16 A. 20.

17 Q. Okay. We went through a long  
18 list of potential risks of sling surgery  
19 using polypropylene, right?

20 Remember we compared -- or we  
21 talked about Uretex and Desara and all of the  
22 risks they have.

23 Does TVT® have a greater risk  
24 than Desara or Uretex with respect to any

1 complications?

2 A. Yes.

3 Q. Potential complications?

4 A. Yes.

5 Q. Which ones?

6 A. Cording, roping, because of the  
7 fraying that occurs and loss of fibers.

8 Q. Okay. And then what

9 complication does that cause for the patient?

10 A. Retention. It can cause pelvic  
11 pain. It can cause exposure, erosion.

12 Q. Okay. Do you have an opinion  
13 as to whether the rate of exposure and  
14 erosion with TVT® is higher or lower or the  
15 same as compared to Uretex and Desara?

16 A. I don't see many patients that  
17 have a Desara problem. I see very few  
18 patients that have a Uretex problem. I do  
19 see many patients with TVT® problem.

20 Q. Do you have any notion as to  
21 how many TVT®'s have been implanted versus  
22 Desara and Uretex?

23 A. I'm sure there's a lot more  
24 TVT®'s.

1 Q. Right.

2 So it's not really fair to  
3 compare numbers of problems you see with  
4 Desara and Uretex versus TVT®, true?

5 A. Sure. Yes.

6 Q. Okay. Are you aware of any  
7 study that says that TVT® with respect to any  
8 of the complications of -- the potential  
9 complications of SUI surgery with mesh has a  
10 greater propensity for any of these  
11 calculations than competitor products?

12 A. That study hasn't been done.

13 Q. And do you have an opinion --  
14 do you believe you have sufficient  
15 information to state an opinion as to the  
16 comparative risks of TVT® versus Uretex and  
17 Desara with respect to any of these  
18 complications?

19 A. My opinion is based on the  
20 number of patients I see with complications  
21 with all slings. And TVT® is much higher  
22 than the others.

23 Q. Okay. But you also have just  
24 agreed that there are far -- there have been

1 far more TVT®'s implanted in the population  
2 than there have been Desara and Uretex, true?

3 A. Yes.

4 Q. Okay. 10 or 20 times as many,  
5 right?

6 A. I wouldn't know.

7 Q. Okay. So do you believe you  
8 have a valid scientific basis to state that  
9 the complications with TVT® are greater than  
10 Uretex and Desara?

11 A. Yes.

12 Q. Okay. And what is that  
13 scientific basis?

14 A. It's based on my entire  
15 knowledge, my training, my expertise as a  
16 vaginal surgeon, the review of all of the  
17 materials that I've had to review, reading as  
18 much literature as possible. There are very  
19 few papers that talk about complications from  
20 slings, and there's very few papers, if any,  
21 that compare one sling over the other for  
22 complications.

23 Q. Well, if there's very few  
24 papers, how can that be a scientific basis?

1 I guess that's my problem.  
2 I understand that you in your  
3 practice have seen more TVT® complications  
4 than Desara and Uretex. I understand that.  
5 Okay. But you've just said there's a whole  
6 lot more TVT®'s out in the market.

7 So can you point me to any  
8 specific -- I don't mean general, my training  
9 and experience. Can you point me to any  
10 specific scientific basis that you have for  
11 stating the opinion that TVT® has a greater  
12 risk of complications than Desara or Uretex?

13 A. There's scientific evidence  
14 that looks at what happens to the different  
15 meshes with force.

16 Q. Okay. What is that?

17 A. I am sorry.

18 Q. What is that scientific  
19 evidence?

20 A. That is a paper that I believe  
21 was done by Wylie to put force on multiple  
22 different slings and look at the way these  
23 properties behave outside of the body.

24 Q. So do you have any -- and I

1 wasn't clear, and I'll make it.

2                   Can you point me to any  
3 scientific literature that says in the body  
4 TVT® has more risk of complications than  
5 Uretex or Desara or any other type of  
6 polypropylene sling?

7                   A.       Not at this time.

8                   Q.       Okay. Do you have any -- and I  
9 think -- do you have any estimate as to what  
10 percentage of patients with TVT® slings have  
11 had problems with long-term inflammation?

12                  A.       Ask this again, please.

13                  Q.       Do you have any -- and I  
14 think -- let me just ask a global question.

15                   You list in your report at  
16 page 5 -- okay, let's go to your report, your  
17 TVT® report, page 5.

18                   Okay. Paragraph A, under the  
19 list of opinions, right?

20                  A.       Yes.

21                  Q.       And you see you say the mesh in  
22 TVT® can cause foreign body reaction,  
23 inflammation, et cetera.

24                   Do you see that?

1 A. Yes.

2 Q. Okay. Do you have any opinion  
3 as to what percentage of the patients who  
4 have had a TVT® implanted have problems of  
5 chronic foreign body reaction, inflammation,  
6 fibrotic bridging, mesh contraction, fraying,  
7 particle loss?

8 A. All of the patients I see in my  
9 practice.

10 Q. In your explant practice?

11 A. Yes.

12 Q. I appreciate that, but my  
13 question was of all of the people that have  
14 had them implanted, do you have an opinion as  
15 to what percentage have had any of those  
16 problems?

17 A. I don't.

18 Q. Okay.

19 A. I have a guesstimate.

20 Q. I'll hear it even though I  
21 don't think it's admissible, but go ahead.

22 A. 30 percent.

23 Q. And what's that based on?

24 A. On the shrinkage rate of the

1 polypropylene mesh that it shrinks 20 to  
2 40 percent. So about 30. So about  
3 30 percent of those patients are going to  
4 have a problem.

5 Q. What's that 20 to 40 percent  
6 shrinkage rate based on?

7 Is that in vivo or ex vivo?

8 A. Well, in vivo in animals. It's  
9 not in vivo in patients.

10 Q. So do you have any data that  
11 talks about the shrinkage rate of mesh, of a  
12 TVT® mesh, in a woman?

13 A. No.

14 Q. And a woman can have foreign  
15 body reaction and have no symptoms, true?

16 A. Some might, yes.

17 Q. A woman can have fibrotic  
18 bridging and have no symptoms, true?

19 A. I haven't seen any.

20 Q. I didn't ask whether you've  
21 seen any.

22 Can that occur?

23 A. I haven't seen everyone. I  
24 want to be truthful and precise, but just as

1 I don't know --

2 Q. Well, there's varying degrees  
3 of fibrotic bridging, aren't there?

4 A. I think fibrotic bridging is  
5 fibrotic bridging. If it comes together as  
6 granulomas, it's granulomas.

7 Q. Are there varying degrees of  
8 mesh contracture?

9 A. It can vary, 20, 30, 40  
10 percent.

11 Q. Down here in opinion C, Ethicon  
12 failed to adequately describe to physicians  
13 how to properly tension the TVT®.

14 Does this go back to the  
15 technique criticisms you had?

16 A. That's actually in the IFU. In  
17 the IFU in one place it says, "minimal  
18 tension," and in one place it says, "no  
19 tension." It talks about doing the placement  
20 under a local or under a general. Under  
21 local at 300 MLs they're supposed to cough  
22 until there's a drop. So that is a  
23 tensioning approach. But later on they say,  
24 "no tension" and "minimal tension." So it's

1 not -- it's not very precise.

2 Q. Did you read the IFU before you  
3 implanted the TVT® a number of years ago?

4 A. Yes.

5 Q. Do you believe that experienced  
6 surgeons who perform SUI surgery with mesh in  
7 2010 and before were aware that a potential  
8 complication was acute or chronic pain?

9 A. I don't think they knew about  
10 it, no.

11 Q. What about acute or chronic  
12 pain with intercourse?

13 A. No, I don't think they knew  
14 about it.

15 Q. So you don't think experienced  
16 surgeons before 2010 knew that acute or  
17 chronic pain with intercourse was a possible  
18 complication with mesh SUI surgery?

19 A. May I ask what would you call  
20 an experienced surgeon?

21 Q. Somebody that does sling  
22 surgery on a regular basis.

23 A. I don't know what a regular  
24 basis -- once a week?

1 Q. You can't answer the question?

2 A. No. I'm trying to ascertain  
3 what a -- I don't think an experienced  
4 surgeon is someone who does one a week. I  
5 think an experienced surgeon would be someone  
6 who does three, four a week. And even I,  
7 when I was first learning about these slings,  
8 wouldn't have thought that a patient would  
9 have had pain with intercourse from a  
10 polypropylene sling.

11 And I saw many patients that  
12 went to their doctors and all they heard was  
13 a common phrase, "It's not the mesh, it's not  
14 the mesh, it's not the mesh." So the  
15 examination has to be very specific and  
16 precise on where the mesh is placed. And  
17 when you do that and you listen to these  
18 women, you see that that is the cause,  
19 confirmed by my own removal and their pain  
20 goes away.

21 Q. Was pain with intercourse a  
22 risk with Mersilene?

23 A. I didn't think it was.

24 Q. Is it?

1                   A.         Knowing what I know today,  
2     probably. But it's a lot softer. It's  
3     lightweight. It's 33 grams per meter  
4     squared. It's not 100. This lays very flat.  
5     You can't feel it so it drastically less.

6                   Q.         Is pain with intercourse a risk  
7     with the Burch procedure or the MMK  
8     procedure?

9                   A.         No.

10                  Q.         Paragraph E, Ethicon failed to  
11     inform physicians of certain patient  
12     populations may be more prone to experience  
13     adverse outcomes or higher frequency or  
14     severity of risk.

15                  What patient populations fall  
16     into that category?

17                  A.         Patients that have excessive  
18     scarring, and you don't know who that is, but  
19     there are patients that formed keloids, for  
20     example.

21                  The only warning is in patients  
22     that are growing or pregnant are going to  
23     have a delivery. So patients that are on  
24     steroids, patients who are diabetic, women

1       that have chronic obstructive lung disease,  
2       elderly women that may not heal right. A  
3       certain percentage of smokers.

4           Q.       Those are all ones that should  
5       not have --

6           A.       Those are ones that ought to be  
7       warned that they may have a higher frequency  
8       of complications.

9           Q.       Autologous and cadaveric  
10      slings, have they always been available for  
11      SUI?

12          A.       Autologous sling was actually  
13       described in 1907 by Von Giordano was  
14       actually an autologous sling.

15          Q.       Yeah, I don't want to go back  
16       quite that far.

17                  Have they been in regular use  
18       for how long?

19          A.       I think they were really  
20       popularized in the '40s by Aldridge.

21          Q.       So in the 2000s, were doctors  
22       regularly performing sling procedures with  
23       cadavers and autologous grafts?

24          A.       I think that when TVT® came

1 along, it changed the mindset of everyone.  
2 You don't need to harvest. You don't need to  
3 take the extra time in the OR. This is quick  
4 and easy. Here you go. It's a whole kit;  
5 put it in. The report by Ulmsten was you  
6 could do this in 25 minutes under local. The  
7 patient goes home the same day. It all  
8 sounded really, really good, and a lot of  
9 people abandoned doing autologous slings.

10 Q. As far as you understand, the  
11 Desara sling is safe?

12 A. The way I use it, yes.

13 Q. It's not safe if you follow  
14 manufacturer's instructions?

15 A. No.

16 Q. And the Uretex sling was safe  
17 in your technique, but not using  
18 manufacturer's instructions?

19 A. Correct.

20 Q. Okay. So down here in  
21 paragraph F where you say that there were  
22 safer alternative options available, what  
23 available options were safer?

24 A. Burch, autologous slings,

1 cadaveric slings.

2 Q. Do you still offer patients

3 Burch as an alternative if you're not going

4 to be doing an abdominal surgery?

5 A. I do.

6 Q. Has anyone chosen that?

7 A. One patient.

8 Q. So as you're sitting here  
9 today, do you believe a Burch procedure is a  
10 safer procedure for a patient than any type  
11 of mesh sling procedure?

12 A. Long term, yes.

13 Q. Okay. And do you believe  
14 autologous and cadaveric slings are safer  
15 procedures than any kind of mesh?

16 A. Yes.

17 Q. Do you tell your patients that,  
18 do you tell your patients that long -- when  
19 you're having this discussion with them and  
20 giving the alternatives, do you tell your  
21 patients that you can either have a mesh  
22 sling, or you can have an autologous sling,  
23 or you can have a cadaveric sling, or you can  
24 have a Burch procedure?

1                   Those are your four  
2       alternatives, right?

3                   Is that right?

4       A.          And some urethral plication.

5       Q.          And what is that, briefly?

6       A.          Briefly, it's the pubourethral  
7       ligaments that are replaced by TVT®, which is  
8       the theory of Ulmsten and Papa Petros.  
9       Instead of replacing them with an implant,  
10      you grasp them and you suture them underneath  
11      the midline and create a in-situ sling.

12      Q.          So it's kind of a native tissue  
13      repair, so to speak?

14      A.          You could call it that, yes.

15      Q.          It's not using any kind of  
16      outside material?

17      A.          Correct.

18      Q.          Okay. So that's the fifth one  
19      you offer?

20      A.          Yes, if their urodynamics are  
21      not severe incontinence.

22      Q.          And do you believe that's a  
23      safer alternative than any type of mesh?

24      A.          That is the safest, yes.

1 Q. Okay. So when you're sitting  
2 there talking to a patient and you're giving  
3 them these five alternatives, do you tell  
4 them that all of the alternatives are safer  
5 long term than a mesh procedure?

6 A. I tell them that I don't know  
7 what the long-term complications from a sling  
8 are going to be. I tell them that there's a  
9 failure from the native tissue repair, that  
10 the Burch procedure is more invasive, that  
11 the harvesting a piece of their own body is a  
12 little invasive, but it's not terribly  
13 invasive. A Burch is more invasive than a  
14 sling, and that a cadaveric sling is the same  
15 sequence of steps as putting in a  
16 polypropylene sling.

17 And I let them pick.

18 Q. And then do you tell them that  
19 long term all the alternatives, other than a  
20 mesh sling, are safer?

21 A. Yes.

22 Q. Okay. Is there literature that  
23 you can point me to, reliable scientific  
24 literature, that says that all procedures for

1 SUI, all these other procedures, are safer  
2 than any type of mesh sling?

3 A. No, there's literature that  
4 says there's alternatives. I don't know that  
5 anyone has done a head-to-head comparison  
6 long term for these procedures the way that  
7 they do surgery.

8 When I'm counseling my  
9 patients, it's the way that I do surgery and  
10 even the polypropylene slings that I place, I  
11 do differently.

12 Q. My question is are you aware of  
13 any literature, scientific, published  
14 literature, that says that mesh slings are  
15 the least a safe alternative for SUI surgery  
16 long term?

17 A. No.

18 Q. Okay. In fact, are you a  
19 member of any organizations?

20 A. Yes.

21 Q. What?

22 A. ACOG, Society of Gynecologic  
23 Surgeons, AUGS, AAGL.

24 Q. Do any of those organizations

1 publish guidelines or practice parameters or  
2 position statements about SUI surgery?

3 A. I think AUGS and SUFU has put  
4 something out there.

5 Q. And do either of those  
6 publications state that mesh surgery is the  
7 gold standard for SUI treatment?

8 A. They do call it the gold  
9 standard.

10 Q. What does the gold standard  
11 mean to you?

12 A. What it means to me is if you  
13 take a group of surgeons that do the same  
14 procedure, that they have uniform results and  
15 uniform complications. That's what the gold  
16 standard means to me.

17 Q. It doesn't mean it's the  
18 preferred procedure?

19 A. I think that the way that it's  
20 used it implies that, but that's not what it  
21 means to me.

22 Q. So the gold standard to you, if  
23 it's published in these position statements  
24 by these organizations that you're a member

1 of, does not mean that it's the preferred  
2 procedure?

3 A. That's not what it means to me.

4 I've seen -- I remember looking at that and  
5 calling it the gold standard and years ago  
6 the Burch was the gold standard and the  
7 sacrocolpopexy is the gold standard. And  
8 what I've always taken that to mean is when  
9 we treat women across the country, across the  
10 planet, that the procedures that we do in the  
11 hands of many are safe, which is what this  
12 data is supposed to extrapolate and tell us,  
13 the risk/benefit ratio. So that if someone  
14 who is a very good scientist does a very  
15 well-designed study and comes up with a  
16 percentage of cure, that that would then  
17 extrapolate to the hands of other surgeons.

18 Q. Do you believe that mesh sling  
19 surgery is the gold standard for the  
20 treatment of SUI?

21 A. I believe slings are the gold  
22 standard.

23 Q. That wasn't my question.

24 A. I know.

1 Q. My question is do you believe  
2 that mesh slings are the gold standard for --  
3 well, strike that.

4 The AUGS does say that mesh  
5 slings are the gold standard for treatment of  
6 SUI, true?

7 A. It says, if I can be specific,  
8 multi-incision slings. So there's  
9 single-incision slings. Those aren't really  
10 included.

11 Q. And the TVT® is not a single  
12 incision?

13 A. It's not a single-incision  
14 sling.

15 Q. Do you agree that the AUGS says  
16 that multi-incision polypropylene slings are  
17 the gold standard for treatment of SUI?

18 A. And I'm going to answer that  
19 question in, no, I don't believe it's the  
20 gold standard.

21 Q. First of all, it's a two-part  
22 question.

23 First of all, do you agree  
24 that's what the AUGS says?

1 A. It says that, yes.

2 Q. And number two, do you agree  
3 with that statement?

4 A. I do not.

5 Q. And because?

6 A. Because they're talking about  
7 two completely different types of midurethral  
8 slings. So first is the retropubic TVT®, and  
9 the second is the TOT. So if you lump those  
10 two together, those are completely different  
11 slings even though they're multi-incision.  
12 They have a completely different set of cure  
13 and complication profiles.

14 Q. And you believe that the  
15 obturator slings are less safe than the  
16 retropubic?

17 A. If we define -- how do we  
18 define safe? Bladder perforation, they have  
19 less bladder perforations. They have --

20 Q. Overall safety.

21 A. Overall safety?

22 Q. And efficacy.

23 A. They are less efficacious.  
24 They're safer in the sense that you don't

1 enter the pelvic bowl and you injure  
2 structures, but they have their own unique  
3 set of problems with the leg pain, as you  
4 mentioned in one of your questions, with limb  
5 pain as it transverses the obturator muscles  
6 and the adductors.

7 So they lump those two  
8 different kinds of slings as midurethral  
9 slings, but they're separate and distinct  
10 beasts.

11 Q. A retropubic midurethral  
12 polypropylene sling, is that the gold  
13 standard as far as you're concerned for the  
14 treatment of SUI?

15 A. I think the gold standard is  
16 being able to do a sling. That's what really  
17 works.

18 Q. But again --

19 A. Can it be out of polypropylene  
20 done a very specific way like I do? Yes.

21 But the way that the gold  
22 standard is set in that statement it's using  
23 the manufacturer's instructions, and I don't  
24 think that those slings are the gold standard

1 being placed the way that the company  
2 suggested it be placed.

3 Q. Do you classify the TVT® mesh  
4 pore size as macroporous or microporous?

5 A. It's less than 1 millimeter, so  
6 it's micro.

7 Q. In the body or outside the  
8 body?

9 A. Inside the body.

10 Q. Okay. So under the Amid  
11 classification, are the measurements made  
12 inside of the body or outside the  
13 classification?

14 A. Amid classification is 75  
15 microns. Everything is macroporous by that  
16 definition.

17 Q. So are you aware of any  
18 classification system other than the Amid  
19 system for classifying pore size in mesh?

20 A. No.

21 Q. All right. Under that  
22 classification, the mesh in TVT® is  
23 macroporous?

24 A. Yes.

1 Q. Right?

2                         Okay. How did you decide which  
3 Ethicon testimony to cite in your report and  
4 which Ethicon documents to cite in your  
5 report?

6                         Let me back up. First of all,  
7 are you aware that there have been thousands  
8 of pages of testimony from Ethicon employees?

9 A. I would believe so.

10 Q. There would be millions of  
11 pages produced from Ethicon?

12 A. I wouldn't doubt it.

13 Q. And in your report, you cited a  
14 few pieces of testimony and cited several  
15 documents, right?

16 A. Yes.

17 Q. How did you decide which pieces  
18 of testimony to cite and what not to cite and  
19 which documents to cite and what not to cite?

20 A. I cited every -- I gathered  
21 everything that I thought was relevant from  
22 what was sent to me and cited it.

23 Q. Do you say anywhere in your  
24 report that laser-cut mesh -- I see where you

1 often talk about mechanically cut mesh can  
2 fray, et cetera, and release particles.

6                   A.         Which issue was that?   The  
7       fraying?

8 Q. Like on page 9 you say the  
9 mechanically cut mesh was known to rope, curl  
10 and deform, and the mechanically cut version  
11 of mesh could fray or release particles.

12                           Do you have anywhere in your  
13 report where you say laser-cut mesh can rope,  
14 curl or deform or release particles?

15 A. Well, I didn't specifically  
16 state that, but it's implied.

Q. How is it implied?

18 A. Well, just because it's laser  
19 cut doesn't mean it's not going to fray.

20 Q. Do you say that in here  
21 anywhere?

22 I see where you specifically  
23 say the mechanically cut mesh will fray and  
24 have particle loss, et cetera.

1                   Did you ever say laser-cut mesh  
2   will do that?

3                   A.       I may have been remiss in  
4   saying that.

5                   Q.       You mean in not saying that?

6                   A.       Not saying that, yes.

7                   Q.       When you take a -- when you  
8   explant a TVT®, are you able to tell whether  
9   it is laser cut or mechanically cut?

10                  A.       I can tell before because I  
11   have the implant log.

12                  Q.       Does the implant log specify  
13   mechanical cut versus laser cut?

14                  A.       It does.

15                  Q.       It says it on there?

16                  A.       Uh-huh. 810081 BL.

17                  Q.       That's the part number or  
18   whatever?

19                  A.       Yes. I am sorry, 41. 810041.  
20   The 81 is the TOT.

21                  Q.       I think you mentioned 34 TVT®s  
22   you removed last year?

23                  A.       Yes.

24                  Q.       Were you including all the

1 TTVT®s or just the TTVT® that's the subject of  
2 your report here?

3 A. Just the subject of my report.

4 Q. So TTVT-Os and Abbrevos and  
5 whatever else would be on top of that?

6 A. That's different, yes.

7 Q. Of that 34, can you tell how  
8 many were mechanically cut and how many laser  
9 cut?

10 A. Yes, but I didn't separate them  
11 out.

12 Q. But just so we're clear, is it  
13 your testimony that the laser-cut mesh never  
14 should have been sold either?

15 A. Yes.

16 Q. The Desara and Uretex, were  
17 those laser cut or mechanically cut?

18 A. They're not -- they're neither.

19 Q. Okay. And do you ever have to  
20 cut a Desara to create exposed edges, a  
21 Desara and a Uretex?

22 A. No, just after implantation,  
23 the part that is above the skin, that's the  
24 only cut.

1 Q. Can you point me to any  
2 scientific literature that says that particle  
3 loss with mesh causes any clinical problems  
4 for patients?

5 A. No.

6 Q. Have you ever written in any  
7 medical operative report or medical record  
8 for any patient that you believe some of  
9 their clinical problems were related to  
10 particle loss from mesh?

11 A. Not in those words, no.

12 Q. Have you ever referred to  
13 particle loss in any way in any medical  
14 record for any patient?

15 A. Not at this time.

16 Q. In fact, do you know whether  
17 particle loss from TVT® mesh causes any  
18 clinical problems with patients?

19 A. I do.

20 Q. Okay. What's your basis for  
21 that?

22 A. It narrows the caliber, the  
23 diameter of the mesh, because the actual  
24 weave unravels. When it unravels, it loses

1 its configured design. It's a design flaw.

2 It should not do that. There's other meshes  
3 that don't do that.

4 Q. I'm talking about particle  
5 loss. I'm not talking about fraying now.

6 Okay. I'm talking about  
7 particles actually breaking off.

8 Is that what you mean by  
9 particle loss?

10 A. Well, they're almost one in the  
11 same.

12 The reason the particles break  
13 off and they fray is because the actual weave  
14 design of the mesh is flawed. And because  
15 it's flawed, when you put traction on it, the  
16 actual heat -- however they weave this, the  
17 curly Q breaks off. That loses that  
18 attachment holding the two sutures together,  
19 and it frays.

20 Q. So do you believe there are  
21 situations where actual particles of the mesh  
22 separate from the body of the mesh?

23 A. Yes.

24 Q. Okay. Have you seen that?

1 A. Yes.

2 Q. And has it ever -- well, I've  
3 already asked that question.

4 A. It's the only sling that does  
5 this. The other slings don't behave this way  
6 at all.

7 MR. MATTHEWS: Break time?

8 MR. BALL: Sure. Can I ask one  
9 more question before we break?

10 MR. MATTHEWS: Sure.

11 QUESTIONS BY MR. BALL:

12 Q. Can you point me to anybody  
13 else who has written a peer-reviewed medical  
14 paper that says TVT® has all of these  
15 problems with fraying and that type of thing  
16 that the other meshes don't have, like you  
17 just said?

18 Can you point me to anybody  
19 that has published something and agrees with  
20 that?

21 A. I don't think that they've  
22 compared it to other slings.

23 Q. So you can't point me to any  
24 paper that agrees with that statement you've

1 made, true?

2 A. Not at this time.

3 Q. True?

4 A. Yes.

5 MR. BALL: Okay. That's it.

6 We'll take a break.

7 (Off the record at 11:08 a.m.)

8 QUESTIONS BY MR. BALL:

9 Q. Now, have you ever -- let me  
10 get to your CV here. You want to get that  
11 out. I've got just a few questions about  
12 that.

13 It's attached, I think, to the  
14 back of -- have you ever published anything  
15 specifically about TVT®?

16 A. No.

17 Q. Have you ever published  
18 anything specifically about Gynemesh® PS?

19 A. No.

20 Q. Have you published anything  
21 about use of mesh in SUI surgery?

22 A. I published a paper looking at  
23 the recommendation of a sling with SUI  
24 diagnosis.

1 Q. Where was that published, or  
2 how long ago was that, let me ask that?

3 A. '95.

4 Q. Have you ever published that  
5 TVT® has all these problems and, therefore,  
6 should never have been sold?

7 A. No.

8 Q. Why not?

9 A. I've been busy taking care of  
10 people.

11 Q. Have you ever published that  
12 Gynemesh® PS -- strike that. Let me back up.  
13 Do you believe Gynemesh® PS was  
14 so poorly designed it never should have been  
15 sold?

16 A. Yes.

17 Q. Have you ever published that  
18 opinion?

19 A. No.

20 Q. Same reason?

21 A. Yes.

22 Q. Have you ever stated in any  
23 kind of presentation to other doctors that  
24 TVT® never should have been sold?

1 A. No.

2 Q. Have you ever said that to any  
3 group of doctors about Gynemesh® PS?

4 A. No.

5 Q. Why not?

6 A. Don't normally get in front of  
7 a group of doctors.

8 Q. Well, I mean, you've presented  
9 abstracts five times in the last five years,  
10 right, according to your presented abstracts  
11 in your CV?

12 A. Which abstracts are you --

13 Q. Looking at part of your résumé  
14 or your CV that says "Presented Abstracts."  
15 The second page of your CV.

16 A. So that first one was  
17 sacrocolpopexy.

18 Q. No. What I'm asking, did you  
19 actually go out there and present your  
20 abstract?

21 A. I did not present it.

22 Q. On any of these first five that  
23 were 2011 to the present, did you do the  
24 presentation?

1 A. I did not.

2 Q. Okay. So one of them is mesh  
3 complications requiring removal of  
4 midurethral slings, oral presentation.

5 Did you do that?

6 A. Did not.

7 Q. Did you participate in whatever  
8 the materials were?

9 A. Yes.

10 Q. Do you have those?

11 A. What do you mean by materials?

12 Q. I assume when you make -- what  
13 was the format of this oral presentation?

14 Let me back up. Why would you  
15 be listed as giving an oral presentation in  
16 September of 2011 about mesh complications  
17 requiring removal of midurethral slings, if  
18 you didn't do it?

19 A. I did do it. I was part of the  
20 project, but I was not the one verbally  
21 presenting the project.

22 Q. Were you there?

23 A. No.

24 Q. Okay. So what was the project?

1           A.       The project was looking at all  
2       the slings that had issues. It didn't single  
3       out TVT® at that time.

4           Q.       Was that published in some  
5       manner?

6           A.       No.

7           Q.       Were there slides or anything  
8       to accompany this oral presentation?

9           A.       I'm sure there were.

10          Q.       Okay. Do you have those?

11          A.       No.

12          Q.       When did you decide that TVT®  
13       was so unsafe and never should have been  
14       sold?

15          A.       Few years after it came out.

16          Q.       Okay. So 2005 or before?

17          A.       Around that time.

18          Q.       So what about these invited --  
19       here's an invited lecture, Perils for removal  
20       of mesh, roundtable discussion, did you  
21       attend that?

22          A.       That, I did.

23          Q.       Are there any materials from  
24       that?

1           A.       No, that was simply a  
2       roundtable discussion.

3           Q.       And at that roundtable  
4       discussion, did you say either Gynemesh® PS  
5       or TVT® was so unsafe it never should have  
6       been sold?

7           A.       I didn't single out any  
8       manufacturer or any implant. The talk was  
9       designed at helping docs manage patients that  
10      had mesh complications.

11          Q.       The same thing with the  
12      April 2013 roundtable in Charleston?

13          A.       Yes.

14          Q.       So you have had occasions where  
15      you've made presentations about mesh  
16      complications to doctors, right?

17          A.       Yeah, it wasn't -- yes, I  
18      didn't consider that a presentation. I  
19      consider a presentation I get up at a podium  
20      and I give a talk. It was mostly at  
21      breakfast. Usually it's seven, eight people,  
22      two, three show up and, "How do you do this,  
23      how do you do that."

24          Q.       But at none of these roundtable

1 discussions did you say that TVT® or  
2 Gynemesh® PS should never be used, true?

3 A. True.

4 Q. And there's no written  
5 materials for those roundtable discussions?

6 A. There was not.

7 Q. Now, do you have some role with  
8 training people, residents?

9 A. Yes, I do.

10 Q. Where is that done?

11 A. That's at Mercy.

12 Q. How many do you train per year  
13 or however it works?

14 A. The program is accredited for  
15 six residents at each level for four years,  
16 total of 24.

17 Q. So at any one time you're  
18 dealing with 24?

19 A. There's 24 residents there.

20 It's one-on-one mostly when I'm dealing with  
21 them.

22 Q. But do you deal with all 24 of  
23 them throughout the course of the year?

24 A. Yeah.

1 Q. That's what I meant. I didn't  
2 mean you get all 24 together at once.

3 Have you ever told the  
4 residents they should never use TVT®?

5 A. Yes.

6 Q. Okay. Never use it?

7 A. No.

8 Q. And have you ever told them  
9 they shouldn't use Gynemesh® PS?

10 A. Yes.

11 Q. When did you start doing that?

12 A. I can't tell you an exact time.  
13 It's been years, but they see these patients  
14 in the operating room with me, and they get a  
15 sense of what they should do and shouldn't  
16 do.

17 Q. There's a book chapter on here,  
18 Chapter 18, Dekker, Inc., published in 2003.

19 Has that been updated since  
20 that -- ever?

21 A. It's not been updated.

22 Q. Okay. So it doesn't sound like  
23 you have; do you have anything in writing  
24 about mesh used for SUI or prolapse?

1 A. No.

2 Q. Besides the residents, have you  
3 told any other doctors that they -- that in  
4 your opinion they should not use TVT® slings?

5 A. Yes.

6 Q. How many?

7 A. The three or four that do  
8 slings at Mercy.

9 Q. Okay.

10 A. They ask me specifically what  
11 products they should use, and I give them my  
12 opinion.

13 Q. Okay. Anybody else?

14 A. Anyone who has asked me.

15 Q. Well, do they ask you what  
16 products you prefer, or do you affirmatively  
17 tell them, "Whatever you do, don't use TVT®"?

18 A. No, I think we have a  
19 discussion. They ask, you know, "How should  
20 I manage this, what product should I use,  
21 what approach should I use, how should I do  
22 it, which products are available." And I  
23 tell them what's available anymore out there  
24 is not many more manufacturers left, and I

1 recently had this discussion when AMS pulled  
2 their product and BARD pulled their product.

14 Q. What is on the market today for  
15 SUI mesh besides TVT® and Desara?

## 16 A. Advantage Fit.

17 Q. And that's a Boston Scientific  
18 product?

19 A. Yes.

20 Q. Do you believe that's a safe  
21 product?

22 A. No, it's not as good as Desara.

23 Q. Okay. And what's unsafe about  
24 it?

1                   A.         It has the same issue with the  
2     round straw adaptation to the flat sling. I  
3     think it's pretty easy. We both learned in  
4     second grade that you can't put a square peg  
5     in a round hole. So all of these trocars  
6     create a round opening and then they put a  
7     square piece in there and it immediately  
8     causes it to roll. It's a design flaw in  
9     every manufacturer.

10                  So the only way to get around  
11    it is to have a sling that allows to you do  
12    surgery, open those spaces up, lay the sling  
13    nice and flat, and the only product out  
14    there, and it doesn't fray, is Desara.

15                  Q.         Does the Advantage sling have a  
16    fraying issue?

17                  A.         Yes.

18                  Q.         All right. So you're critical  
19    of the Boston Scientific Advantage product  
20    both because it has an issue of fraying and  
21    because it has an improper instrumentation?

22                  A.         Yes.

23                  Q.         And does it also, in your view,  
24    recommend inappropriate technique?

1 A. Yes.

2 Q. So Advantage, Desara, TVT®, are  
3 there any other polypropylene sling products  
4 on the market that you're aware of?

5 A. Coloplast.

6 Q. Okay. And what's the name of  
7 theirs?

8 A. The retropubic one is called  
9 Supris.

10 Q. Have you used it?

11 A. I have not.

12 Q. Does it have an instrumentation  
13 problem?

14 A. It has less of an  
15 instrumentation problem.

16 Q. Okay. Do you believe it has an  
17 unsafe instrument with it?

18 A. Not as much because the  
19 sling --

20 Q. I didn't ask as much. I'm not  
21 there to ranking them yet. I'm just saying  
22 do you think it has a safe instrumentation or  
23 not?

24 A. No, it does not.

1 Q. It does not?

2 A. It does not.

3 Q. Okay. Does it have a safe  
4 recommended technique?

5 A. It has a recommend technique.

6 Q. Is the recommended technique  
7 safe?

8 A. Not in my opinion.

9 Q. Okay. And then the mesh  
10 itself, is the mesh itself safe?

11 A. No.

12 Q. Okay. So on the market today,  
13 is there anything else? That's the four.

14 A. There's I-Stop. I don't see  
15 too much of that. Every now and then I get a  
16 patient that has a problem. I don't know  
17 who -- I don't know anyone that uses it  
18 around here. These patients come from far  
19 away.

20 Q. So the four that are used with  
21 some regularity in the United States are  
22 the -- what did you say the Coloplast was  
23 called?

24 A. Supris.

1 Q. The Supris, the Advantage, the  
2 TVT® and the Desara?

3 A. Yes.

4 Q. Okay. And all of those, as far  
5 as you're concerned, have unsafe  
6 instrumentation?

7 A. Yes.

8 Q. And all of them have an unsafe  
9 recommended technique?

10 A. Yes.

11 Q. And all of them, except the  
12 Desara, have an unsafe mesh?

13 A. Yes.

14 Q. Okay. And maybe is the Desara  
15 a safe mesh or not?

16 A. Yeah, I was thinking of the  
17 difference between the Supris and the pore  
18 size and the configuration and the diameter,  
19 comparing that to the TVT® and then comparing  
20 all of it to each other real quick.

21 Q. So does Desara have a safe or  
22 unsafe mesh?

23 I'm not talking about the  
24 instrumentation. I'm not talking about the

1 technique.

2 Is the mesh itself safe with  
3 the Desara as far as you're concerned?

4 A. The mesh has the same problem,  
5 it is polypropylene and degrades.

6 Q. Do you consider it reasonably  
7 safe, the mesh itself?

8 A. Same category as all the  
9 others.

10 Q. So is it fair to say that all  
11 of the meshes that are on the market today,  
12 you consider all of them for SUI surgery to  
13 be unsafe?

14 A. At this point in time with  
15 everything I've reviewed and everything I've  
16 learned, they are not safe.

17 Q. Okay. None of them?

18 A. None of them.

19 Q. Okay. And then in ranking,  
20 okay, we'll doing ranking now.

21 I assume because you use the  
22 Desara you believe it is the least unsafe?

23 A. Yes.

24 Q. Okay. What's next? If it

1 wasn't around, what would you use next?

2 A. I probably wouldn't use any. I  
3 would probably go to cadaver or do something  
4 else.

5 Q. So the other three, the  
6 Coloplast, the Boston Scientific and the  
7 TVT®, those SUI sling products, you just  
8 wouldn't use them, period, true?

9 A. Definitely not.

10 Q. True?

11 A. Yes.

12 Q. Are there any studies showing  
13 the long-term efficacy and complication of  
14 the Uretex or the Caldera Desara sling?

15 A. No.

16 Q. If the Uretex sling were still  
17 on the market, would you use it?

18 A. Yes. That would be my  
19 preferred sling.

20 Q. Above the Desara?

21 A. Yes.

22 Q. And what happened to it?

23 A. It was a French company called  
24 Sofradim and something happened, it got sold,

1 and I think Covidien purchased them. BARD  
2 didn't purchase them, so they lost the rights  
3 to import the sling.

4 Q. So is that sling still on the  
5 market somewhere?

6 A. I don't think so.

7 Q. In your opinion about the  
8 relative merits of the various slings and  
9 instruments and techniques, you're not aware  
10 of any medical review or medical literature  
11 that makes a comparison like that and reaches  
12 those kinds of conclusions, true?

13 A. True.

14 Q. Okay. This is all essentially  
15 based on your personal opinion based on your  
16 personal experience?

17 A. Yes.

18 Q. Let's take 2005 to 2010.  
19 During that time period, were the IFU  
20 warnings any different for the Uretex or the  
21 Desara sling versus the TVT® in any material  
22 way?

23 A. 2005?

24 Q. To 2010, during that time

1 period?

2 A. So I was not using Desara.

3 Q. Well, I thought you said you  
4 started in 2010, that's why I included it.

5 A. Okay. So from -- I started  
6 January 2010.

7 Q. So starting January 2010 and  
8 going backward to 2003?

9 A. Okay.

10 Q. Which is when you started using  
11 the Uretex?

12 A. Uh-huh.

13 Q. During that time period, were  
14 the warnings in the IFU about the SUI slings  
15 any different in a material way between the  
16 Uretex IFU, the Desara IFU and the TVT® IFU?

17 A. With respect to the material?

18 Q. No, with respect -- by  
19 material, I meant relevant or a significant  
20 way. Let me reask the question. I'll get  
21 rid of the word "material."

22 A. Okay.

23 Q. From 2003 to 2010, the warnings  
24 in the IFU between the Desara warnings, the

1 Uretex warnings and the TVT® warnings, were  
2 they different in any way that was  
3 significant to you during that time period?

4 A. They were the same, but I want  
5 to qualify that I didn't read or look at the  
6 Caldera Desara until 2010. So I already knew  
7 what the IFU was for the Uretex and the TVT®.

8 Q. But you looked -- when you  
9 looked at it in 2010, did you notice it being  
10 significantly different in terms of  
11 warnings --

12 A. It had a lot -- the Desara had  
13 a lot more warnings.

14 Q. Okay. In January 2010?

15 A. Yes.

16 Q. Do you know when it came on the  
17 market?

18 A. Around that time.

19 Q. Okay.

20 A. I was looking for another  
21 sling, they were at a conference and I asked  
22 to be evaluated.

23 Q. So the Uretex and TVT® slings  
24 had substantially the same warnings, right,

1       during the time they were on the market in  
2       2003 to 2010?

3           A.       I think the Uretex had more  
4       warnings than the warnings that were in the  
5       TVT®.

6           Q.       Okay. During the 2003 to 2010  
7       time period?

8           A.       Yes.

9           Q.       And what was more about them?

10          A.       Injury to organs, talked about  
11       retention, talked about urgency. Just more  
12       of the routine things that you would expect  
13       from a sling.

14          Q.       There was more of that type of  
15       warning 2003 to 2010 with the Uretex product  
16       than the TVT®?

17          A.       Yes.

18          Q.       Okay. And then the Desara was  
19       kind of a new generation sling as of January  
20       of 2010?

21          A.       Yes.

22          Q.       And it had more warnings?

23          A.       Yes.

24          Q.       And that was not surprising to

1 you because there had been many more years of  
2 experience?

3 A. Yes.

4 Q. Now, in terms of warnings to  
5 doctors, manufacturers can get warning  
6 information to doctors through methods other  
7 than the IFU, true?

8 A. Yes.

9 Q. Professional education programs  
10 can provide warnings, right?

11 A. Yes.

12 Q. There can be surgeon monographs  
13 that can supply warnings?

14 A. Yes.

15 Q. Have you evaluated any of the  
16 sources of warnings that Ethicon gave to  
17 doctors other than the IFU?

18 A. Yes, I've looked at some  
19 material.

20 Q. In your report, do you make  
21 reference to any other materials that  
22 contained warnings other than the IFU?

23 A. No. Because essentially  
24 information was the same as the IFU, and I

1 relied on the sure bet that that information  
2 was always with the product rather than  
3 trying to second guess whether surgeon A, B  
4 or C did get this material.

5 Q. Have you ever reviewed the  
6 surgeon monograph with respect to the  
7 Prolift® product, which was a Gynemesh® PS  
8 product?

9 Have you evaluated that?

10 A. What did you call it?

11 Q. Surgeon monograph.

12 A. Yes.

13 Q. You've reviewed it?

14 A. Yes.

15 Q. Did that have the same or more  
16 or different warnings than the IFU?

17 A. Had more pictures.

18 Q. I didn't ask that.

19 Did it have the same or  
20 different warnings than the IFU?

21 A. Pretty much the same.

22 Q. Okay. Did you review the  
23 professional education materials for the TVT®  
24 and the Gynemesh® PS that were used by

1 Ethicon to help educate doctors?

2 Did you review those?

3 A. I reviewed what was available  
4 to me.

5 Q. Were there any different  
6 warnings in the professional education  
7 materials for the TVT® or the Gynemesh® PS  
8 more than in the IFU?

9 A. No.

10 Q. But you don't make -- with  
11 respect to your warning sections in both the  
12 Gynemesh® report and the TVT® report, the  
13 only warnings you refer to are warnings that  
14 are in the IFU, true?

15 A. Yes. And I based that on the  
16 fact that that was a sure thing for me that  
17 that came with the kit.

18 I don't know whether the  
19 surgeons viewed the video, looked at the  
20 pamphlets. I am not sure what they had done.  
21 But that was a constant.

22 Q. But in any particular case, you  
23 would want to examine all of the information  
24 that was available from Ethicon to the

1       doctors in order to assess the adequacy of  
2       the warnings, true?

3           A.       Not if they're the same as the  
4       IFU. I think it's the same.

5           Q.       Your belief is that none of the  
6       materials had any different warnings in them?

7           A.       Correct.

8           Q.       Okay. Are there any warnings  
9       in an IFU for an SUI product that you thought  
10      were adequate?

11          A.       When I read it years ago, I  
12      thought it was adequate. Reading it today,  
13      none of them mention frequency. None of them  
14      mention how often these events occur, what  
15      the long-term consequences are.

16                  So they're all not adequate.

17          Q.       Okay. So when you read the  
18      TVT® IFU back in the early 2000s when you  
19      tried out the product, you thought the  
20      warnings were adequate at that time?

21          A.       I would have thought so, yes.

22          Q.       Okay. And you now have  
23      concluded that none of the IFUs for any of  
24      the mesh slings are adequate, true?

1                   A.         With everything -- yes, with  
2     everything I know today, they are not  
3     adequate.

4                   Q.         None of them?

5                   A.         None of them.

6                   Q.         And you're saying this because  
7     they don't state frequency?

8                   A.         Yes.

9                   Q.         Okay. Frequency of what?

10                  A.         How often is there a bladder  
11     perforation, how often is there an exposure,  
12     how much mesh contracture occurs, what are  
13     the pore sizes, what happened to the  
14     effective pore size. It's a very small  
15     percentage of the information that any doc  
16     needs to truly understand what he or she is  
17     going to offer that patient and how to  
18     counsel that patient.

19                  So everything we tell a patient  
20     before surgery is based on what our  
21     understanding is and our best efforts at  
22     explaining those risks and benefits to the  
23     patients. So when it's very small, you don't  
24     have enough information to truly counsel a

1 patient effectively.

2 Q. Today is your counseling of the  
3 patient based more on the IFU or on your own  
4 personal experience?

5 A. Both.

6 Q. Is it based more on one or the  
7 other?

8 A. Probably more on my experience  
9 at this point.

10 Q. Now, you say the IFU doesn't  
11 tell frequency.

12 Do you have an opinion as to  
13 what the frequency of exposure is with a  
14 TVT®?

15 A. Yes.

16 Q. Because I thought -- here's the  
17 reason I'm asking this. I thought we went  
18 down this before, and I thought you said  
19 rather than -- let me back up.

20 I thought you said before you  
21 didn't have an opinion as to what the  
22 percentage of frequency was with any of the  
23 potential complications, and that's where I'm  
24 getting confused. So I'm going to ask that

1 broad question first.

2 A. Yes.

3 Q. Do you have an opinion as to  
4 the frequency of any of the potential  
5 complications with a TVT®?

6 A. Two-part answer.

7 Q. Okay.

8 A. No, because I don't know the  
9 denominator.

10 Q. Right.

11 A. And I don't know -- what I know  
12 for certain are the patients that present to  
13 me with those complications, and the patients  
14 that present to other surrounding surgeons  
15 with those complications. So the only way to  
16 know that is to pool a very large number of  
17 docs and figure out what it is. And even if  
18 you found out what it was, you would have to  
19 know the exact number of slings that went in.

20 Q. So do you believe that the  
21 percentages of any of the complications with  
22 the TVT® such as exposure, chronic foreign  
23 body reaction, chronic pain with intercourse,  
24 do you believe that is knowable?

1 A. It can be knowable, yes.

2 Q. Okay. So do you know of anyone  
3 or any paper or anything that would give  
4 reliable percentages of the frequency of  
5 complications such as dyspareunia,  
6 contraction, exposure?

7 A. That study hasn't been done.

8 Q. Okay. And you're not aware of  
9 any published papers on those topics?

10 A. Correct.

11 Even the Nilsson paper that's  
12 cited on the back of the AUGS, SUFU, had  
13 almost a -- half the patients went away. So  
14 although they reported a few complications,  
15 you don't know what the other 45, 47 patients  
16 that got lost to follow-up were doing.

17 Q. So if a patient asked you,  
18 "What is the percentage chance that I'm going  
19 to have dyspareunia after a sling procedure,"  
20 you wouldn't be able to give them a  
21 percentage?

22 A. The percentage I give -- I can  
23 give them percentage on what I do. The way I  
24 do.

1 Q. I mean, the general, if they  
2 ask you just generally, not just you, Doc,  
3 just generally --

4 A. 25 percent. 25 percent.

5 Q. -- have dyspareunia?

6 A. 25 percent can have  
7 dyspareunia.

8 Q. Okay. What's your source for  
9 that number?

10 A. That source is a paper by  
11 Hilary Cholhan.

12 Q. And that's not -- is that  
13 long-term dyspareunia or temporary or both?

14 A. It was de novo dyspareunia.

15 Q. But long term or --

16 A. It never got followed up,  
17 reported after that.

18 Q. That's all products, not just  
19 TVT®?

20 A. That was not just specific  
21 TVT®.

22 Q. Is that what you tell patients  
23 then, that there's a 25 percent chance of  
24 dyspareunia with a general percentage with

1 mesh?

2 A. No. Because I don't follow the  
3 manufacturer's instructions for placement.

4 Q. What if they ask you what the  
5 general percentages of exposure or erosion,  
6 do you give a percentage?

7 A. It's from 4 to 12. 4, 18,  
8 17 percent. It depends on --

9 Q. I'm getting confused because a  
10 minute ago I asked you if there were any  
11 published studies about these percentages,  
12 and you said no, and now you're rattling off.  
13 I'm having trouble.

14 A. There are some papers that talk  
15 about, but they're very small groups and the  
16 percentages are all over the board.

17 Q. So I think I used the word  
18 "reliable," and I think that's -- so you're  
19 not aware of any reliable scientific papers  
20 that have been published that give what you  
21 think are reliable estimates of the  
22 percentage of complications of dyspareunia,  
23 pelvic pain, erosion, contraction, that type  
24 of thing, true?

1 A. True.

2 Q. You said that you gave the  
3 general numbers like 85 percent cure and 7 or  
4 8 percent improvement with mesh slings.

5 Remember that?

6 A. That was with the TVT®.

7 Q. TVT®.

8 Are there any general numbers  
9 like that for other products?

10 A. Yes.

11 Q. What are they?

12 A. I know the Mersilene sling by  
13 Steve Young had a 94 percent success rate.

14 Q. Okay.

15 A. Studies cite fascial slings  
16 95 percent.

17 Q. I was talking about polyester  
18 slings.

19 Are there any results on the  
20 Desara sling, the Uretex and the other ones  
21 that you've mentioned?

22 MR. MATTHEWS: Object to the  
23 form. Those are not polyester slings.

24 MR. BALL: Polypropylene. That

1 was my error.

2 MR. MATTHEWS: Okay.

3 QUESTIONS BY MR. BALL:

4 Q. Polypropylene slings, the other  
5 ones, is there any data that you find  
6 reliable about the success rates with other  
7 polypropylene slings?

8 A. There's data to suggest that  
9 all slings have a high cure rate.

10 Q. Of?

11 A. 85, 90. Depending whether you  
12 look at objective or subjective data,  
13 sometimes that a little bit different.

14 Q. So in terms of success rates,  
15 the TVT® sling is consistent with the other  
16 polypropylene slings that have been on the  
17 market the last 10 or 15 years, true?

18 A. Yes.

19 Q. Okay. And in terms of  
20 complications, you don't have reliable data  
21 to compare the rate of complications with  
22 TVT® versus the other polypropylene slings  
23 that have been on the market the last 10 or  
24 15 years, true?

1 A. True.

2 Q. I wanted to ask you before we  
3 get into the Prolift® here, can you tell  
4 me --

5 MR. BALL: Let's go off the  
6 record for a second.

7 (Off the record at 11:52 a.m.)

8 QUESTIONS BY MR. BALL:

9 Q. Are you aware of any published  
10 scientific literature that is critical of the  
11 instruments used with TVT®?

12 A. No.

13 Q. Are you aware of any published  
14 scientific papers that are critical with the  
15 technique recommended in the IFU for the  
16 TVT®?

17 A. No.

18 Q. Are you aware of any scientific  
19 papers that are critical of the mesh design  
20 with the TVT®?

21 A. No.

22 Q. Okay. Have you read -- do you  
23 know which versions of the IFU -- well, let  
24 me back up.

1 Have you read the IFU that  
2 accompanies TVT® today?

3 A. I don't think so.

4 Q. Okay. So you don't have any  
5 opinion as to whether it's adequate or not,  
6 the warnings in there?

7                  A.        No, I actually tried to click  
8 on it several times and it didn't download  
9 for me to get the latest version.

10 Q. Other than being a doctor who  
11 reads warnings, do you have any other  
12 qualifications in the content of warnings?

13                   A.         I'm not sure I understand the  
14       question.

15 Q. What are your qualifications to  
16 judge the adequacy of warnings besides the  
17 fact that you're a doctor that reads IFUs?

18                   A.         I've written several  
19     instructions for use on instruments I've  
20     designed.

21 Q. For what?

22 A. One was for a vaginal dilator  
23 for women that have a shortened vagina.

Another one is for an

1 instrument to do pelvic surgery, sacrospinous  
2 colpopexy.

3 Q. Have those been commercialized,  
4 those products?

5 A. Yes.

6 Q. And did you write the warnings  
7 in the IFU?

8 A. Yes.

9 Q. Or just the technique?

10 A. I wrote both.

11 Q. Okay. Did anyone help you  
12 write the warnings?

13 A. They gave me a handout on what  
14 it should include, and I wrote it.

15 Q. If I wanted to have those IFUs,  
16 where would I get them?

17 A. I don't know where you would  
18 get them at this time. Here's why: The  
19 company got sold. Currently the product got  
20 bought by -- let me think. I'll think of it  
21 in a second. I'll think of it.

22 So I did not have a binding  
23 contract with the company that I did this for  
24 so when they sold it to -- oh, I'll think of

1 the name. Who are they?

2 So I don't get any royalties or  
3 anything on that. I don't know where it's  
4 at.

5 Q. Do you have copies of the IFUs  
6 for those products?

7 A. I'm sure I don't.

8 Q. Do you still use the products?

9 A. I do not.

10 Q. So you don't have any copies of  
11 IFUs that you've ever been involved in  
12 writing?

13 A. That's correct.

14 Q. In addition to the IFU,  
15 doctors -- in addition to the IFU and other  
16 materials the company might supply to doctors  
17 about warnings, the doctors also have a  
18 responsibility to keep up on continuing  
19 medical education about the procedures they  
20 perform, true?

21 A. Sure, yes.

22 Q. And they also have a  
23 responsibility to be aware, for example, of  
24 FDA notifications about the procedures they

1 use, true?

2 A. Yes.

3 Q. And also the position

4 statements and publications of the

5 organizations they're members of, true?

6 A. Yes.

7 Q. And those can all be sources of

8 information about warnings, true?

9 A. Yes.

10 Q. Are there more cites in your

11 reports to company documents or peer-reviewed

12 literature?

13 A. Probably company documents.

14 Q. Why is that?

15 A. I thought that that was a very

16 relevant source of things that were not in

17 the peer-reviewed literature that truly spoke

18 to the issues that the mesh had that were not

19 evident by any peer-reviewed literature.

20 Q. One reason I want to cover

21 before we get into the Gynemesh® is I want to

22 make sure that I understand and have on the

23 record any communications that you recall

24 having with anybody who worked for Ethicon.

1                   Okay?

2                 A.     Okay.

3                 Q.     All right. So, first of all, I  
4     think you said back in the early 2000s there  
5     was a person who encouraging you to try TVT®,  
6     right, and you gave us a name earlier in the  
7     deposition, and it escapes me?

8                 A.     Hattie Loggie.

9                 Q.     Okay. Other than her  
10   encouraging you to try TVT® in your SUI  
11   surgery and you telling her that you had some  
12   issues with it, anything else you remember  
13   about those communications?

14                A.     With her?

15                Q.     Yes.

16                A.     No, I remember there was -- I  
17   had communications with her.

18                Q.     I'm going to get to other  
19   people in a minute. I want to take them one  
20   at a time.

21                A.     I am sorry, ask that question  
22   again.

23                Q.     So you had communications back  
24   in the early 2000s with this woman about --

1 where she was encouraging you to try TVT®,  
2 and you tried it, and you told her what your  
3 issues were, right?

4 A. Yes.

5 Q. Anything else about those  
6 communications that you can recall?

7 A. No. Nice lady. She wanted me  
8 to try it, and I declined.

9 Q. Well, you tried it and then  
10 declined using it more?

11 A. Right. Yes.

12 Q. By the way, did the two people  
13 you tried it on have any long-term problems,  
14 do you know?

15 A. No, I don't think so.

16 Q. And then you also mentioned a  
17 Will Irby at one point in time that you had a  
18 conversation with.

19 A. Yes.

20 Q. Who was he?

21 A. I don't recall his exact title,  
22 but he had something to do with maybe the  
23 product manager for TVT®.

24 Q. Okay. And what were the nature

1 of your communications with him?

2 A. He was introduced to me by  
3 Hattie Loggie as someone who might be a  
4 potential customer for using TVT®.

5 Q. Okay. And what was the  
6 nature -- and then just tell me about those  
7 communications.

8 A. My recollection is I met the  
9 man once. It was in my office. I asked  
10 about the product. He gave me a VCR at the  
11 time --

12 Q. Was this before or after you  
13 tried it with --

14 A. It was before.

15 Q. Before?

16 A. Yeah, it was before.

17 Q. So this was kind of in  
18 conjunction with you trying it out the first  
19 time?

20 A. Yeah. Yes.

21 Q. Okay. Anybody else from  
22 Ethicon that you ever had any communications  
23 with about TVT®?

24 A. Retropubic TVT®?

1 Q. Yes.

2 A. Now, there was a Jim Bly, but I  
3 think that was regarding TVT-Secur. So I  
4 think retropublic TVT® was Will Irby. There  
5 was Hattie Loggie. There was maybe her  
6 regional manager, Hattie's regional manager,  
7 that moved to Atlanta, but I can't recall his  
8 name.

9 Q. And that was all about wanting  
10 you to try it out, and you tried it out, and  
11 you told them your thoughts?

12 A. Yes.

13 And after I tried it, I think  
14 Hattie set up this meeting. I remember  
15 they -- we went to dinner at Morton's and he  
16 asked me what my concerns were, and I relayed  
17 then my concerns about the tunneling, the  
18 curling, the rolling, the fraying, all of  
19 those things.

20 Q. Now, did you get any specific  
21 training on using the TVT® before you tried  
22 it out?

23 A. Yes.

24 Q. What was the nature of that

1 training?

2 A. I think there was some sort of  
3 course. I remember being flown. I don't  
4 remember where I flew, maybe it was  
5 Cincinnati. And there was a -- it was pretty  
6 impressive. There were a couple hundred  
7 people there. They took us in in buses, and  
8 they had live surgery, video and --

9 Q. This is about TVT®?

10 A. Yes.

11 Q. And this was before you tried  
12 it the first time?

13 A. Yes.

14 Q. Did you ever go locally here  
15 and watch anybody or have any training from  
16 that?

17 A. No.

18 Q. Did you ever go over to France  
19 with Prolift®?

20 A. No.

21 Q. Or Gynemesh®?

22 A. No.

23 Q. Now, I've been talking about  
24 TVT®. Now I want to switch to Prolift® or

1 Gynemesh®.

2 A. Okay.

3 Q. Prolapse products.

4 A. Okay.

5 MR. MATTHEWS: Well, he didn't  
6 give an opinion on Prolift®.

7 MR. BALL: He gave an opinion  
8 about Gynemesh®.

9 MR. MATTHEWS: Right. That's  
10 two different things.

11 MR. BALL: Yeah, I understand.  
12 But his report is full of references  
13 to Prolift®. Okay.

14 QUESTIONS BY MR. BALL:

15 Q. Is Prolift® made out of  
16 Gynemesh® PS?

17 A. It is.

18 Q. All right. And did you ever  
19 have any communications with anybody from  
20 Ethicon connected with any product made out  
21 of Gynemesh® PS?

22 A. So let me just think out loud  
23 for a second.

24 Okay?

1                   There was a young lady that  
2                   drove me to Wichita, Kansas, to watch Dave  
3                   Robinson, Dr. Robinson, who I had met a  
4                   couple years prior, so I think worked for  
5                   Ethicon. I recently just took out one of his  
6                   posterior Prolift®'s just a few days ago. So  
7                   Dave Robinson. I don't recall the girl's  
8                   name. Maybe Tracy. We went -- she drove me  
9                   in her car, went to Wichita, Kansas, if I  
10                  recall correctly, her, Dr. Robinson.

11                  Q.         Dr. Robinson did the surgery?

12                  A.         Yes.

13                  Q.         Okay. And you watched him do  
14                  it?

15                  A.         I watched him do it.

16                  Q.         Okay. That's one episode.

17                   At that time had you used  
18                  Gynemesh® PS any?

19                  A.         I had not.

20                  Q.         Okay. Any other communications  
21                  you had with anybody from Ethicon about any  
22                  Gynemesh® PS product?

23                  A.         I'm thinking. I don't recall.  
24                  If you have something to jog my memory.

1 Q. What happened at the end of  
2 that Wichita trip?

3 A. Like typically what happens,  
4 they want you to become a customer, try the  
5 product. It seemed like Dr. Robinson put it  
6 in pretty smooth. It seemed smooth. He  
7 talked about what the advantages,  
8 disadvantages were. I was very comfortable  
9 doing vaginal surgery, doing sacrospinous.  
10 And my interactions with Dave, a couple years  
11 before he was interested in that instrument  
12 that I developed for doing sacrospinous and  
13 accessing that area of the pelvic floor and  
14 that -- really don't think I have any other  
15 recollection besides that.

16 Anybody else? I think Jim Bly,  
17 maybe Jim Bly brought me. I always like to  
18 have stuff. I always like to play with it,  
19 touch it, read things, look at the trocars.  
20 I'm very hands-on, mechanical.

21 Q. What's Jim Bly's role?

22 A. He's a salesperson.

23 Q. But you think that was about  
24 the TVT-O or about the --

1 A. No.

2 Q. -- or the Secur?

3 A. He was about Prolift® and  
4 Secur.

5 Q. Okay. And you think you did  
6 have some interaction with him about a  
7 Gynemesh® PS product Prolift®?

8 A. It was about a posterior  
9 Prolift®. I still have it.

10 No. No, it was a total  
11 Prolift®. It was a total.

12 Q. And what was that communication  
13 about?

14 A. Basically wanting me to try it.

15 Q. Okay. So any other  
16 communications?

17 A. Jogging my memory, that's all I  
18 remember.

19 Q. Okay. Do you know if there's  
20 any difference between the mesh that is  
21 Gynemesh® PS and the mesh used in TVT®?

22 A. Yes, there is.

23 Q. What's the difference?

24 A. Well, PS is 45 grams per meter

1        squared. It has --

2            Q.        So it's lighter?

3            A.        It's lighter, which is why TVT®  
4        is considered heavy. And learning all of  
5        this and thinking about it, reading about it  
6        and everybody's in a lightweight mesh, you  
7        think that someone would make a sling that's  
8        lightweight. The pores have a funny  
9        configuration. They're not the same. They  
10      vary in size, and there's a fiber that runs  
11      across it. So depending on how you measure  
12      it, you can get something from very small to  
13      1 millimeter to 1.5 to .3. It's all over.

14            Q.        Are the TVT® pore sizes that  
15      consistent?

16            A.        Before you implant it, yes.

17            Q.        So far the differences between  
18      TVT® and Gynemesh® PS is irregularity in pore  
19      size and also the weight.

20                    Anything else?

21            A.        They're both polypropylene.

22            Q.        Is the polypropylene the same,  
23      to your knowledge?

24            A.        Yes.

1 Q. Okay.

2 A. They're both polypropylene.

3 The TVT®'s used for slings. The Gynemesh® is  
4 used for prolapse, cystocele, rectocele,  
5 vaginal apex support. Variable size in the  
6 pores. Color's different. It's got blue  
7 stripes in the Gynemesh® where the early TVT®  
8 was clear. Later TVT® is blue.

9 Q. Is Gynemesh® PS a lightweight,  
10 macroporous, monofilament mesh?

11 A. It's medium weight,  
12 macroporous, monofilament.

13 Q. What's the dividing line  
14 between light and medium --

15 A. About 28, 28 -- I am sorry.

16 Q. We've been doing great.

17 A. Sorry.

18 Q. Lightweight cutoff is what?  
19 What were you just going to say?

20 A. 28 to 30 grams per meter  
21 squared.

22 Q. And below, that's lightweight?

23 A. Yes.

24 Q. And 30 to what is medium

1 weight?

2 A. 60, 50.

3 Q. And above 50 or 60 is

4 heavyweight in your view?

5 A. Yes.

6 Q. I'm now going to be asking you

7 principally about Gynemesh® PS, okay, so

8 we're switching gears. It doesn't mean that

9 there might not be some overlap, but we're

10 switching gears.

11 Doctor, can you tell me --

12 first of all, have you ever used Gynemesh®

13 PS?

14 A. Yes.

15 Q. Okay. Kind of globally tell me

16 what your experience is using that, and then

17 I'll ask you more specific questions.

18 A. I didn't like it.

19 Q. Well, I didn't ask whether you

20 liked it or not yet. I kind of figured you

21 didn't like it or you wouldn't be here.

22 What have you used Gynemesh® PS

23 for?

24 A. I've never used Gynemesh® PS.

1 I've used Prolift®, which has Gynemesh® PS.

2 Q. But I'm encompassing -- so

3 what what have you used -- let me back up.

4 Gynemesh® PS -- Prolift® is

5 made out of Gynemesh® PS, right?

6 A. Yes.

7 Q. All right. The only Gynemesh®  
8 PS you've used is Prolift®?

9 A. Yes.

10 Q. Okay. And how many times have  
11 you used Prolift®?

12 A. Just once.

13 Q. Okay. And when was that?

14 A. Shortly after I visited Dave  
15 Robinson.

16 Q. Okay. Did that patient have  
17 complications?

18 A. Yes.

19 Q. Okay. In what nature?

20 A. She had protracted pain.

21 Q. Did it eventually go away?

22 A. She didn't come back.

23 Q. So you don't know?

24 A. Don't know.

1 Q. All right. Just remembered.

2 When you do an implant of a TVT® -- or excuse  
3 me, an explant of a TVT®, the surgeries that  
4 come to you, what has been your success rate  
5 in resolving their problems?

6 A. A percentage, you're looking  
7 for a percentage?

8 Q. Yes.

9 A. 95 percent.

10 Q. Okay. And when you do that, do  
11 you do something else to deal with their  
12 stress urinary incontinence?

13 A. Not at that time.

14 Q. Okay. You take out the sling  
15 and kind of see how they do, is that the  
16 idea?

17 A. Yes.

18 Q. And sometimes you have to,  
19 what, put in another sling or do some other  
20 kind of procedure?

21 A. Yes.

22 Q. What percentage of the time  
23 that you've taken out a TVT® do you have to  
24 do some other kind of procedure?

1                   A.         It's a great question. About  
2 half the time.

3                   Q.         About half the time.

4   And then the other half, you  
5 take it out and they're okay?

6                   A.         They're fine. They're leaking  
7 a very small amount due to the scarring from  
8 all the surgery and with the experience they  
9 had, they would rather leak a little bit at  
10 that point rather than do anything else at  
11 all.

12                  Q.         And when you do the other half  
13 of the time when you do a repeat surgery for  
14 SUI, what kind of surgery do you do?

15                  A.         I offer them everything as I  
16 mentioned above. Because --

17                  Q.         Just as if they're a new  
18 patient, so to speak?

19                  A.         And they are sort of a new  
20 patient because I don't do partial removals.  
21 I do complete removals so the entire pelvis  
22 is sort of naive except with scarring from  
23 multiple surgeries. But it gets her back to  
24 a starting point.

1 Q. Okay. And you've been able --  
2 when you do these explant surgeries for TVT®,  
3 you've been able to remove all of the mesh?

4 A. Yes.

5 Q. All right. Now, so you tried  
6 Prolift® one time.

7 Why did you not like it?

8 A. I instantly saw the curling  
9 similar to what would happen with a TVT®  
10 because, again, the same concept.

11 Q. The curling of the arms?

12 A. The curling of the arms going  
13 through and the pulling and the fraying, and  
14 you can actually see the tissue get pulled --  
15 as you're pulling on the arm to tension it,  
16 you can actually see the rectal tissue  
17 pulling in with it. I regret not removing it  
18 right then and there.

19 Q. On the one person?

20 A. On that one person.

21 Q. All right. So how many  
22 Gynemesh® PS products have you explanted?

23 A. Does that include Prolift®?

24 Q. Is that a Gynemesh® PS product?

1 A. Okay. Yes.

2 Q. Okay.

3 A. In 2015?

4 Q. No -- well, we'll start there.

5 A. I know that number

6 specifically.

7 Q. Okay. Sure.

8 A. About 30.

9 Q. Okay. And were those all  
10 Prolift®?

11 A. Yes.

12 There's some Gynemesh® also.  
13 Piece Gynemesh®.

14 Q. That was cut from a sheet?

15 A. Yes.

16 Q. All right. So how many of each  
17 of those?

18 A. About seven Gynemesh® from a  
19 square piece, auto made.

20 Q. In other words, a surgeon cuts  
21 it?

22 A. Yes.

23 Q. And through your career, how  
24 many Gynemesh® PS products have you

1 explanted?

2 A. So including everything with  
3 Prolift®?

4 90.

5 Q. And how many of those have been  
6 Prolift® versus surgeon-cut Gynemesh® PS?

7 A. Surgeon-cut, 15.

8 Q. Now, with respect to Gynemesh®  
9 PS, which is what your report is about here,  
10 okay, so that's about the mesh, right?

11 A. Okay.

12 Q. You're addressing the mesh  
13 that's cut by the surgeon and can be used for  
14 prolapse, true?

15 A. Okay.

16 Q. Right, that's what your report  
17 addresses?

18 A. Yes.

19 Q. Just so we're clear. Exhibit 3  
20 is a reported that's entitled "Gynemesh® PS,"  
21 and that is addressing the mesh that can be  
22 cut from a sheet and used to -- in various  
23 surgeries, correct?

24 A. Yes. Just to be clear when we

1 talk, are we adding Prolift®, or are we  
2 sticking to just the sheet? I'm a little  
3 confused.

4 Q. If I have a Prolift® question,  
5 I'll ask you about it.

6 A. Okay.

7 Q. But I'm talking now about  
8 Gynemesh® PS, okay. The mesh itself, do you  
9 believe that that was so unsafe it never  
10 should have been sold?

11 A. Yes.

12 Q. Okay. Why is that?

13 A. It folds and curls because of  
14 its poor design. It bunches and rolls when  
15 it's placed. The vagina is not the anterior  
16 abdominal wall. And this mesh was designed  
17 for the anterior abdominal wall. And in the  
18 anterior abdominal wall the surgeon can lay  
19 it nice and flat. That's not the case in the  
20 vagina. The vagina is a tubular structure  
21 and the attachment points create oblique  
22 stress when you try to secure it. And then  
23 the vagina moves very differently. It has  
24 completely different tensile characteristic

1 requirements than the anterior abdominal  
2 wall.

3 It's really a product that  
4 should have never been put in the vagina.

5 Q. Mesh in general?

6 A. Yes.

7 Q. All right. Not just Gynemesh®?

8 A. Mesh in general.

9 Q. So I want to make clear on  
10 that.

11 It's your opinion that mesh in  
12 general should not -- of any kind should be  
13 used for treatment of prolapse, true?

14 A. Vaginally placed.

15 Q. Vaginally placed?

16 A. Because there is no mesh that's  
17 designed specifically for the mechanical  
18 requirements of the vagina.

19 Q. Okay. In your view, is  
20 Gynemesh® PS the same as the mesh used for  
21 hernia repair?

22 A. Yes.

23 Q. Okay. No differences?

24 A. No.

1 Q. So were there companies besides  
2 Ethicon that made mesh for use with prolapse  
3 repair?

4 A. Yes.

5 Q. Have you used any of their  
6 products?

7 A. Have not.

8 Q. Okay. But you don't believe  
9 any product ever made, any mesh product ever  
10 made, for vaginal repair of prolapse is safe?

11 A. That is correct.

12 Q. Now, are there any mesh  
13 products on the market today for vaginal  
14 repair of prolapse?

15 A. Placed vaginally?

16 May I ask a question? Placed  
17 vaginally?

18 Q. That's what I meant.

19 A. There are products that are  
20 available at the surgeon's discretion to  
21 place in the vagina.

22 Q. What are those?

23 A. There's a Boston Scientific  
24 product Polyform.

1 Q. Have you ever used it?

2 A. No.

3 Q. Okay. And you believe it's  
4 unsafe, too?

5 A. Yes.

6 Q. And is that -- any others?  
7 Any other products?

8 A. I was thinking. So there's  
9 Gynemesh®, there's Boston Scientific, there's  
10 Coloplast has Restorelle. Let me see who the  
11 players are. So Boston Scientific Polyform,  
12 Ethicon Gynemesh®, and Coloplast Restorelle.  
13 I think that's it.

14 Q. Do you know surgeons today that  
15 use polypropylene mesh for vaginally -- what  
16 was the word you used? Vaginal entrance or  
17 whatever?

18 A. What did I use, support? I'm  
19 not sure what I used.

20 Q. For vaginal prolapse repair,  
21 going through the vagina, not abdominally, do  
22 you know surgeons today that use mesh for  
23 that type of surgery?

24 A. So I want to answer the

1 question. I know there's people using it,  
2 yes.

3 Q. Okay.

4 A. I don't know them personally,  
5 but I know they're using it.

6 Q. So I want to make sure I  
7 understand your opinion as to why Gynemesh®  
8 is unsafe and should never have been sold.

9 One opinion I'm hearing is that  
10 mesh in general is just not compatible with  
11 use in the vagina, true?

12 A. Correct.

13 Q. Okay. Any other specific  
14 criticisms you have of Gynemesh® PS from a  
15 design standpoint?

16 A. It's heavier, stronger than it  
17 needs to be placed in the vagina. Even  
18 though it is sort of medium weight,  
19 macroporous, monofilament with pore sizes  
20 that in certain areas are above a millimeter,  
21 in other areas they're not, which enhances  
22 bridging fibrosis and scarring. The vagina  
23 is just not an organ -- the vagina doesn't  
24 have an organ that's conducive for placing

1 mesh. Let's see if I wrote anything else.

2 And obviously all the things we  
3 mentioned about polypropylene and the chronic  
4 inflammation and the scarring, especially in  
5 a vagina, because the vagina shrinks

6 differently than the anterior abdominal wall.  
7 The anterior abdominal wall shrinks in the  
8 plane of which the mesh is placed.

9 Q. You mean when you're doing a  
10 sling?

11 A. Well, when you're -- let me  
12 back up.

13 Q. Okay.

14 A. I meant the abdominal wall,  
15 when Gynemesh® is placed in the abdominal  
16 wall. It's in a sheet.

17 Q. Okay.

18 A. But when it's placed in the  
19 vagina, it's curvilinear. So just like scar  
20 will shrink a little bit, it will shrink in a  
21 way that will make the vagina not functional.

22 Q. Does the mesh actually shrink,  
23 or is the contraction connected with the  
24 formation of scar tissue?

1                   A.         The whole unit shrinks. It's a  
2         combination of the bridging fibrosis, even  
3         scar without mesh is going to shrink. But if  
4         you add chronic inflammation to it and you  
5         add an attachment point and it pulls  
6         together, it's going to shrink. It's not  
7         that the -- it's not that the fiber in the  
8         mesh shrinks. It's not like the  
9         polypropylene itself is going to shrink. But  
10       the gaps between the polypropylene shrink.

11                  Q.         That's part of the scarring  
12         process?

13                  A.         And the bridging fibrosis from  
14         chronic inflammation.

15                  MR. MATTHEWS: When you get to  
16         a break point.

17                  MR. BALL: Sure, we can do that  
18         right now.

19                  (Off the record at 12:22 p.m.)

20         QUESTIONS BY MR. BALL:

21                  Q.         Doctor, the Nilsson paper from  
22         2013 that we referred to earlier concluded  
23         the TVT® operation is durable for 17 years  
24         with a high satisfaction rate and no serious

1 long-term, tape-induced adverse effects.

2 You're aware of that

3 conclusion, right?

4 A. Yes.

5 Q. All right. And you did not

6 cite that paper in your report concerning

7 TVT®, correct?

8 A. Yes.

9 Q. All right. And why did you not

10 cite that paper?

11 A. The paper started with 90

12 patients, ended up with 45.

13 Q. Followed over 17 years?

14 A. But it's half the population.

15 So what if the other half had a problem.

16 Actually I did some calculations and some of

17 the percentages that he mentions in there are

18 not accurate. He's using -- he's not

19 using -- the 90, he's using less than 90, and

20 it ends up being a higher percentage than

21 what it should be.

22 So I had some issues about the

23 paper, and the calculations were off. Half

24 the patients were gone. It wasn't -- the

1 paper would be much more meaningful if  
2 95 percent of the patients were there  
3 followed up.

4 Q. But you don't have any papers  
5 cited in your report about TVT® that reached  
6 a contrary conclusion that TVT® had a low  
7 satisfaction rate with serious long-term,  
8 taper-induced adverse effects?

9 Do you have any of that -- any  
10 papers to that effect cited in your report,  
11 true?

12 A. Would you repeat that last  
13 sentence?

14 Q. You don't have any papers cited  
15 in your report that says TVT® does not have a  
16 satisfaction rate and has serious long-term,  
17 adverse effects?

18 A. No.

19 Q. True?

20 A. True.

21 Q. Do you have in your report  
22 cited the Svenningsen from 2013 that  
23 concludes long-term objective and subjective  
24 outcome after retropubic TVT® is excellent

with a low number of reoperations, even in a nonselected cohort of patients?

3 Do you have that paper?

4 A. I would have to look.

5 Can I see the paper?

6 Q. Just asking if you have it

7 cited in your report.

8 A. No, I don't.

9 Q. Okay. Why not?

11 that I could get my hands on, look at  
12 everything that was available to me. There's  
13 thousands and thousands of papers on TVT® and  
14 slings and et cetera.

15 Q. You don't cite a single paper  
16 in your report that gives favorable findings  
17 with respect to TVT®, true?

18                   A.         No, I do. I mentioned the  
19 Thomas trial, and it says that in the short  
20 term, these patients have good outcomes.

Now, how many papers do you  
really need to cite in there that in the  
short term the sling works?

24 Q. Yeah, let me ask you this: You

1 don't have any papers that give favorable  
2 outcomes for long-term studies on TVT®, true?

3 A. There's not a good, long-term  
4 study to cite.

5 Q. Well, this one says long  
6 term -- this Svenningsen paper is termed  
7 long-term follow-up of the retropubic TVT®  
8 procedure, and you did not -- were not  
9 familiar with it and did not cite it, true?

10 A. Can I see it again?

11 Q. Well, I'm just asking you if  
12 you cited it in your paper, in your report.

13 A. I didn't cite it.

14 Q. And then there's another paper  
15 by Serati, et al., "Tension-Free Vaginal Tape  
16 for the Treatment of Urodynamic Stress  
17 Incontinence: Efficacy and Adverse Effects  
18 at a Ten-Year Follow-Up."

19 Did you cite that paper in your  
20 report?

21 A. I don't think so.

22 Q. Okay. And it concludes the  
23 ten-year results of this study seem to  
24 demonstrate that TVT® is a highly effective

1 option for the treatment of female SUI  
2 recording a very high cure rate with low  
3 complications after a ten-year follow-up?

4 You're not aware of that  
5 conclusion?

6 A. Many times --

7 Q. Are you aware of that  
8 conclusion?

9 A. No.

10 Many times TVT® doesn't really  
11 mean Ethicon TVT®; it's a generic term that  
12 talks about slings in general.

13 Q. Well, this one says it was  
14 Ethicon.

15 A. Okay.

16 Q. But you're not familiar with  
17 the study?

18 A. No.

19 Q. And you did not cite it in your  
20 report?

21 A. Correct.

22 Q. And, in fact, did you make a  
23 specific search to see if you could find  
24 studies about the long-term efficacy and

1       concerns related to TVT®, did you make that  
2       search in connection with your report?

3           A.       Yes, I did.

4           Q.       And you found the Nilsson paper  
5       or were familiar with the Nilsson paper?

6           A.       Yes.

7           Q.       And decided not to mention it  
8       in your report?

9           A.       Yes.

10          Q.       And you did not find the Serati  
11       or the Svenningsen paper?

12          A.       Correct.

13                   MR. MATTHEWS: Do you have an  
14       extra copy of those that I can look  
15       at? If you don't mind.

16                   MR. BALL: I don't mind.

17   QUESTIONS BY MR. BALL:

18          Q.       With respect to Gynemesh® PS,  
19       did you make a search for any papers  
20       regarding multi-year follow-up with respect  
21       to use of Gynemesh® PS products in women for  
22       prolapse?

23          A.       Yes.

24          Q.       Okay. Do you have the

1       Jacquetin 2013 paper cited in your Gynemesh®  
2       report?

3           A.       Let me take a look.

4                   Doesn't look like that I do.

5           Q.       Do you have the -- so you're  
6       not aware of the conclusion from that report,  
7       in that study?

8           A.       No.

9           Q.       Do you have cited in your paper  
10      the Landesherr 2012 publication paper, study,  
11      surgical intervention after transvaginal  
12      Prolift® mesh repair, retrospective  
13      single-center study including 524 patients  
14      with three years median follow-up.

15                  Did you have that study cited  
16      in your --

17           A.       I excluded studies that had  
18      Prolift® because I was not writing a report  
19      on Prolift®.

20           Q.       Well, isn't Prolift® made from  
21      Gynemesh® PS?

22           A.       There's a world of difference  
23      between Prolift® and Gynemesh® PS.

24           Q.       Excuse me, is Prolift® made

1 from Gynemesh® PS?

2 A. Yes.

3 Q. Do you cite multiple internal  
4 company documents referring to Prolift®?

5 A. Yes.

6 Q. And yet you don't cite any  
7 independent literature relating to Prolift®,  
8 true?

9 A. That's correct. Because --

10 MR. MATTHEWS: Well, let me  
11 finish his answer.

12 THE WITNESS: Because there's a  
13 world of difference between adding  
14 arms that extend into the elevators and  
15 the forces exerted that are on that  
16 mesh as opposed to a small piece that  
17 doesn't have arms exerted.

18 QUESTIONS BY MR. BALL:

19 Q. So why did you cite numerous  
20 internal documents and testimony  
21 concerning -- in fact, you cited studies, the  
22 clinical study reports.

23 Those were Prolift® devices,  
24 weren't they?

1 A. Yes.

2 Q. Okay. You cited those. You  
3 gave percentages and everything in your  
4 report, right?

5 A. I --

6 Q. Excuse me, didn't you do that?

7 A. Yes.

8 Q. But you did not cite a single  
9 piece of published literature relating to  
10 Prolift®, true?

11 A. Correct.

12 Q. And do you think that's  
13 scientifically appropriate to cherry-pick on  
14 what Prolift® documents and literature you  
15 use?

16 Is that scientifically  
17 appropriate?

18 MR. MATTHEWS: Objection to the  
19 form.

20 QUESTIONS BY MR. BALL:

21 Q. I'll withdraw the question and  
22 ask it this way.

23 Do you think it's  
24 scientifically appropriate to include in your

1 report numerous references to Prolift® from  
2 internal documents and clinical study reports  
3 and not refer to any Prolift® literature?

4 A. Yes.

5 Q. Okay.

6 A. And the reason for that is I  
7 was looking at the material, not the way the  
8 material works in the body with arms.

9 You cannot take a small piece  
10 of mesh and place it between the vagina and  
11 the bladder without arms and have that same  
12 clinical consequence with arms.

13 Q. Well, then why did you put all  
14 of the Prolift® study results and all the  
15 Prolift® references to internal documents,  
16 why did you put those in your report?

17 See, I understand that  
18 Gynemesh® PS cut from a sheet, you believe,  
19 is different than Prolift®. I understand  
20 that.

21 But how come you put in some  
22 Prolift® documents and didn't put in any  
23 Prolift® literature? That's what I don't  
24 understand.

1                   A.         Because there's a difference  
2                   between the clinical execution of putting in  
3                   Prolift® with arms that extend into the  
4                   levators as opposed to putting in a small  
5                   piece of Gynemesh®.

6                   Q.         Didn't you refer extensively to  
7                   results where Prolift® with arms were put in?

8                                  Look at page 21.

9                   A.         Yes.

10                  Q.         You have extensive discussion  
11                  of Prolift® -- of a Gynemesh® PS product with  
12                  arms, the Prolift® product, put in. You have  
13                  extensive discussion of that at page 21,  
14                  don't you, sir?

15                  A.         Yes.

16                  Q.         And it goes on over, you have a  
17                  more extensive discussion at page 22,  
18                  correct?

19                                  My only point, Doctor, is that  
20                  pages 21 and 22, at least, you have extensive  
21                  discussions of studies done installing  
22                  Prolift® in women, implanting Prolift® in  
23                  women, true?

24                  A.         And I used those from the point

1 of view of shrinkage of the material.

2 Q. Those paragraphs don't say,

3 "The only reason I'm citing this is about

4 shrinkage." You start off saying, "An

5 Ethicon clinical study for pelvic prolapse

6 repair involving the Prolift® showed

7 serious" --

8 A. A transvaginal Gynemesh® for

9 pelvic organ prolapse repair demonstrated to

10 Ethicon that the mesh was not effective

11 prolapse treatment according to Ethicon's own

12 criteria.

13 Q. "This study, which performed by

14 physicians who helped develop the Prolift®

15 device," right?

16 A. Yes.

17 Q. And it's all about the

18 Prolift®, isn't it?

19 A. No, it says that they helped

20 develop the Prolift® device.

21 Q. Is this data placed upon a

22 Gynemesh® used in a Prolift® device with

23 arms, the data at pages 21 and 22 of your

24 report?

1 A. I believe so.

2 Q. Okay. Did you make in your --

3 in your evaluation in this case, did you

4 consider to some degree internal documents

5 and internal data related to Prolift® devices

6 made out of Gynemesh® PS?

7 A. I considered everything that

8 was available.

9 Q. Including that?

10 A. Yes.

11 Q. Did you make any search for

12 literature about these long-term success

13 rates of Gynemesh® PS when used in Prolift®

14 devices?

15 Did you make that search?

16 A. Yes.

17 Q. And did you find these three

18 papers that I have -- in your search these

19 three papers that I mentioned?

20 A. I did not find those.

21 Q. Now, in the --

22 MR. MATTHEWS: Well, I am

23 sorry. Three papers that you

24 mentioned?

1 MR. BALL: Jacquetin,

2 Landesherr --

3 MR. MATTHEWS: Okay.

4 MR. BALL: I didn't quite get  
5 to the third one. The Altman paper is  
6 also not mentioned there.

7 QUESTIONS BY MR. BALL:

8 Q. The one-year follow-up, you  
9 didn't mention that one in your report, did  
10 you, sir?

11 A. No.

12 MR. BALL: Your point is well  
13 taken. I had forgotten the Altman  
14 paper.

15 QUESTIONS BY MR. BALL:

16 Q. Now, Doctor, when you removed  
17 Gynemesh® PS, whether Prolift® or  
18 non-Prolift®, when you removed Gynemesh® PS  
19 in these explant surgeries you do, what is  
20 your success rate there?

21 A. How are we defining success  
22 rate?

23 Q. Well, how would you define it?

24 A. Well, there's two aspects: One

1       is how much do you remove, and two, how are  
2       the patients doing.

3           Q.        Okay. So give me the results  
4       under both of them.

5           A.        If it's a Prolift® that hasn't  
6       been revised or manipulated in the office, I  
7       can usually get out the vast -- all of the  
8       mesh between the rectum and the vagina.

9                   The arms, depending how they're  
10      placed, because there's variable there. For  
11      example, in the one I just took out a few  
12      days ago from my friend Dave Robinson, I  
13      removed the woman's entire right arm out of  
14      the gluteus muscles. On her left side, I  
15      removed half the arm. Almost invariably  
16      these patients are pain free after surgery.  
17      Not 100 percent. And you can't get  
18      100 percent of the mesh out.

19                  You can get more of the  
20      Prolift® out posteriorly. The anterior  
21      Prolift® you can, again, remove most of the  
22      mesh from between the vagina and the bladder.  
23      The arms that go around the descending pubic  
24      ramus, they're very hard to get. About

1       50 percent of the time you can remove the  
2       distal arm and about 20 percent of the time  
3       you can remove the entire apical arm.

4                   If it's a total Prolift® and  
5       that bridge of mesh between the anterior and  
6       posterior have combined together, it is a  
7       big, wadded, folded, scarred, difficult  
8       nightmare.

9                   Q.       So let's take the women having  
10      success from a quality of life and pain  
11      standpoint.

12                  What is your percentage of  
13      success with explant surgery on Gynemesh®  
14      products?

15                  A.       Could you ask the question  
16      again differently?

17                  Q.       Yeah.

18                  With respect to women from  
19      becoming an improvement in quality of life  
20      and not having ongoing problems using --  
21      defining that as success, what is your  
22      success rate with explanting Gynemesh®  
23      products?

24                  A.       So they have an improved

1 quality of life. They don't have the quality  
2 of life that they had before because they've  
3 been through whatever they've been through.

4 So the way I can answer the  
5 question is improved quality of life with  
6 pain reduction, about 80 percent of the  
7 patients have no pain. The other 20 percent  
8 have some degree of pain.

9 They still have their prolapse.  
10 Their prolapse comes back. For the  
11 posterior.

12 For the anterior, it's a little  
13 bit less because there's more arms.

14 Q. A little bit less what?

15 A. Improvement. 70 to 75 percent.

16 Q. Have pain go away?

17 A. The pain goes away.

18 The other 25 percent still have  
19 some pain. 7 percent of the women have a  
20 scarred, narrowed, foreshortened vagina, and  
21 there's all kinds of variations of residual  
22 prolapse that occurs.

23 Q. When you do the explant  
24 procedure, do you have to deal with the

1 recurrent prolapse?

2 A. Not at that moment. You can't.

3 The dissection is extensive to remove it.

4 Q. On most of the patients you  
5 see, do they need a follow-up surgery for  
6 recurrent prolapse?

7 A. Yes.

8 Q. Okay. Is that usually  
9 performed by you or someone else?

10 A. If they return, I'll do it.

11 But they don't all come back.

12 Q. The great majority of the  
13 patients need -- after the mesh is removed,  
14 still need treatment for prolapse, surgical  
15 treatment?

16 A. Some. I don't have an exact  
17 number. These patients live many states  
18 away, and they're seeking my services for  
19 removing the mesh and then they may go  
20 somewhere else.

21 Q. But your estimate would be the  
22 great majority of them will need treatment  
23 for recurrent prolapse?

24 A. The great majority of them have

1 prolapse. I don't know if they'll seek  
2 treatment.

3 Q. Prolapse of grade 2 or greater?

4 A. One segment, two segments,  
5 some, yes.

6 Q. So let's get away from the  
7 explant now and just talk to women that come  
8 to you needing surgical treatment for  
9 prolapse.

10 All right. What alternatives  
11 do you offer them?

12 A. Well, if they need an A and P  
13 repair, cystocele, rectocele, I just use  
14 native tissue.

15 If they need an apical  
16 procedure, I will use polypropylene or  
17 suture.

18 Q. So if they need a posterior,  
19 anterior repair, you'll use what?

20 A. Just native tissue. Absorbable  
21 sutures.

22 Q. And if they need an apical  
23 repair, is that an abdominal procedure?

24 A. Yes.

1 Q. And you'll use mesh with that?

2 A. Yes.

3 Q. And what kind of mesh?

4 A. I use BARD Alyte.

5 Q. How does that differ from

6 Gynemesh® PS?

7 A. The grams per meter squared of  
8 Gynemesh® is 45. The grams per meter squared  
9 for the vaginal arms of the Alyte is 17. So  
10 it's very light. And that's less -- that's  
11 about a third of the weight. The pores are  
12 much larger. The filaments are much smaller,  
13 and even there, I still sew the graft apart  
14 to increase the pore size.

15 Q. And what is the size of the  
16 mesh, once you -- is this cut from a sheet,  
17 the stuff you use for the ASC?

18 A. Yes.

19 Q. This is for an abdominal --

20 A. Yes.

21 Q. -- sacrocolpopexy, right?

22 A. Yes.

23 Q. And what is the size that you  
24 cut it from the sheet?

1                   A.         I think that's a good question.

2                   Q.         You've only said that twice  
3                   today. I hope I have asked more than two  
4                   good questions.

5                   A.         So the vast majority of  
6                   surgeons will do a sacrocolpopexy and tunnel  
7                   between the vagina and the rectum  
8                   abdominally. That's still placing the mesh  
9                   vaginally. They may think there's an  
10                  advantage because there's no incision.  
11                  That's not been my experience. Those women  
12                  still have problems because of placing that  
13                  mesh that way.

14                  So what I do is I limit the  
15                  mesh to the apex. So the lancing had three  
16                  levels: Apex, middle vagina, and distal  
17                  vagina. So a TVT® is on the distal anterior  
18                  segment, and the sacrocolpopexy is on the  
19                  apex. I only place 2 centimeters on each  
20                  side of the Y. So in total, I place  
21                  4 centimeters of mesh by 3 centimeters. So a  
22                  very, very small piece.

23                  Q.         So it's two pieces that are 2  
24                  centimeters by 3 centimeters?

1 A. No.

2 Q. Okay. I'm sorry.

3 A. It's a Y and at the crux of the  
4 Y is 2 centimeters. So if you laid it open,  
5 it's 4 centimeters by at the middle part  
6 3 centimeters, and it's actually a circle.

7 Q. So it's a circle of mesh?

8 I'm just trying to get the  
9 piece of mesh that you cut out before you put  
10 it in, how big that?

11 A. It's very, very small.

12 Q. How big?

13 A. It's a circle that has a  
14 diameter of 3 centimeters.

15 Q. Okay. All right. So not all  
16 ASCs are done abdominally, is that what I  
17 just heard you say?

18 A. No, all ASCs are done  
19 abdominally. They don't all use mesh.

20 Q. Okay. You're talking about not  
21 all apical repairs are done abdominally?

22 A. Yes.

23 Q. Okay. What is the recognized  
24 in the medical community success rate for

1 native tissue repairs for anterior prolapse?

2 A. Would you ask the question

3 again?

4 Q. Yeah.

5 What in the medical community

6 in your opinion is recognized as the success

7 rate for anterior prolapse when you use

8 native tissue repairs?

9 A. What's quoted is 70 percent

10 success.

11 Q. Okay. What do you tell

12 patients?

13 A. I tell them the reason there's

14 only 70 percent success is they have other

15 defects that didn't get fixed. So the

16 patient returns with prolapse because rarely

17 do you have -- and there is a paper out there

18 that says there's no such thing as a

19 cystocele, that all cystoceles have an apical

20 component. So if you're only fixing the

21 cystocele, you're going to get an apical

22 component.

23 Now, the Altman paper does say

24 that if you put mesh anteriorly on a

1 cystocele, it does better if you do native  
2 tissue. However, how many of those patients  
3 really would have done well with a native  
4 tissue repair with an apical component. The  
5 reason --

6 Q. You mean a native tissue apical  
7 component as well as the anterior?

8 A. Yes.

9 Q. Okay.

10 A. So that is well-documented that  
11 there are patients that have a cystocele, but  
12 really it's a displacement cystocele, and  
13 it's displaced because the top of the vagina  
14 is coming down as opposed to a distension.

15 So on a distension, sure, you  
16 could do a native tissue repair and you're  
17 going to get a much higher success rate than  
18 if you have a displacement cystocele. If you  
19 have a displacement cystocele, if you don't  
20 do an apical component with the anterior  
21 repair, you're absolutely going to have a  
22 recurrence. So then that's counted as a  
23 recurrence of the cystocele.

24 So that 70 percent success

1 really is skewed because there's not a single  
2 paper in the literature, not one, that looks  
3 at outcomes of native tissue that addresses  
4 the anterior, the apex, the enterocele, the  
5 rectocele, and the perineum. Not a single  
6 paper.

7 Q. So if someone repairs an  
8 anterior prolapse and repairs the apical at  
9 the same time, do you have an opinion as to  
10 what the success rate is?

11 A. Of the anterior and the apical,  
12 yes. If it's a good repair and it holds, it  
13 shouldn't come back.

14 Q. No, what is the recurrence  
15 rate, I should say?

16 A. I'm not sure I understand the  
17 question.

18 Q. In the medical community if you  
19 do an anterior prolapse repair and at the  
20 same time do a repair apically with native  
21 tissue, is there a recognized recurrence rate  
22 for that?

23 A. Yes.

24 Q. What is that?

1 A. It's 10 percent maybe.

2 Q. Okay. So if I'm understanding  
3 what you're saying is the reason that  
4 there -- and you know there's numbers lower  
5 than 70 percent reported in the literature  
6 for native tissue repair recurrence, right?

7 A. Yes, but I answered the  
8 question truthfully on what I thought was --

9 Q. No, I'm not quarrelling with  
10 you.

11 The 30 percent recurrence rate  
12 with anterior repair, you're saying that is  
13 largely caused because an apical repair isn't  
14 done at the same time?

15 A. Because the patient had a  
16 combined defect, only one got fixed.

17 Q. Now, how about posterior  
18 repair, what is the recognized recurrence  
19 rate on a posterior repair, native tissue?

20 A. 15 to 20 percent.

21 Q. Is that affected at all by  
22 doing the apical at the same time?

23 A. Oh, yes.

24 Q. Same deal?

1 A. And the perineum.

2 Q. Now, you said -- is the only  
3 alternative you talk with patients about is  
4 native tissue repair?

5 A. For the cystocele and  
6 rectocele.

7 Q. Okay. So if you're doing an  
8 apical repair, are you doing this thing with  
9 the small piece of mesh?

10 A. If I'm doing it abdominally.

11 Q. Okay. Is that what you usually  
12 do?

13 A. I do both, vaginally,  
14 abdominally.

15 Q. What I'm trying to figure out  
16 when you're talking to a patient that has an  
17 anterior cystocele, do you tell them  
18 typically, typically, "I'm going to do a  
19 native tissue repair with respect to the  
20 anterior prolapse, but we're also doing  
21 apical repair at the same time"?

22 Is that what you say typically?

23 A. If it's a distension cystocele,  
24 so left to right, okay, what we do when we

1 fix a distension cystocele, we basically  
2 just -- you have a piece of canvas across the  
3 roof, just tighten it up in the middle. All  
4 that needs is just sutures.

5 Q. Okay.

6 A. Okay.

7 If it has a distension and a  
8 displacement, you got to pull the top up.  
9 Otherwise you'll shorten the vagina.

10 Q. And the pulling the top up is  
11 what you use the mesh for?

12 A. Yes.

13 Q. Okay. And you may do that  
14 either vaginally or abdominally?

15 A. There is a vaginal procedure  
16 called the sacrospinous which attaches the  
17 top of the vagina to the sacrospinous  
18 ligament.

19 Q. And you use mesh in connection  
20 with that?

21 A. I use sutures or mesh.

22 Q. And what mention -- if you're  
23 using it either for the ASC or the  
24 sacrospinous, what function does the mesh

1 serve?

2 A. It's a suspension point so that  
3 when the vagina tries to evert, it holds it  
4 in position.

5 Q. Is acute or chronic pain a  
6 potential complication with a native tissue  
7 repair?

8 A. No.

9 Q. Or an apical repair of the type  
10 you described?

11 A. No.

12 Q. Is acute or chronic pain with  
13 intercourse a potential complication of a  
14 native tissue repair or the type of apical  
15 repair you perform?

16 A. Yes, but typically when you do  
17 native tissue repair, the reason you have  
18 pain with intercourse is because you made the  
19 vagina too tight at the opening. So it's a  
20 consequence of a mismatch between the  
21 husband's anatomy and the woman's anatomy.

22 Q. Okay. Because the surgeon made  
23 the vagina too small when they did the native  
24 tissue repair?

1           A.       Yes.  Or the skin just got  
2       pulled together.  Sometimes it's a very easy  
3       fix, you cut the skin, you suture at the  
4       right angles, outpatient, ten minutes, it's  
5       fixed.

6           Q.       Is vaginal scarring a potential  
7       complication of native tissue repair?

8           A.       Yes.

9           Q.       Is infection a potential  
10      complication with native tissue repair?

11       A.       Very, very rarely.

12       Q.       Well, infection is a very rare  
13      complication with Gynemesh® repair as well,  
14      true?

15       A.       No.

16       Q.       What is the percentage of  
17      infection with Gynemesh® repair?

18       A.       Every woman that has an  
19      exposure has an active infection in that  
20      tissue.

21       Q.       Urinary problems of frequency,  
22      urgency, dysuria, obstruction, retention and  
23      incontinence, is that a potential  
24      complication of a native tissue repair?

1 A. There's a whole list there.

2 Q. I thought all of them were. Is  
3 that not right?

4 A. Well, not all of them.

5 Q. Well, let's go down them.

6 A. Okay.

7 Q. Is urinary frequency a  
8 potential complication of native tissue  
9 repair?

10 A. No.

11 Q. Urgency?

12 A. No.

13 Q. Dysuria?

14 A. No.

15 Q. Retention?

16 A. No.

17 Q. Obstruction?

18 A. No.

19 Q. Incontinence?

20 A. Yes.

21 Q. Is organ or nerve damage a  
22 potential complication of native tissue  
23 repair?

24 A. Yes.

1 Q. Bleeding, is that a potential  
2 complication?

3 A. Yes.

4 Q. Wound complications?

5 A. Yes.

6 Q. Inflammation?

7 A. Yes.

8 Q. Fistula formation?

9 A. Yes.

10 Q. Pelvic floor neuromuscular  
11 pain?

12 A. Yes.

13 Q. Lower extremity pain?

14 A. No.

15 Q. Is recurrent surgery a  
16 potential risk of native tissue repair?

17 A. Yes.

18 Q. Foreign body response from  
19 sutures, is that a potential complication of  
20 native tissue repair?

21 A. Yes.

22 Q. Exposure or erosion of sutures,  
23 is that a potential complication of native  
24 tissue repair?

1 A. Yes.

2 Q. Contraction or shrinkage of  
3 tissues in connection with scarring, is that  
4 a potential risk of native tissue repair?

5 A. Yes, but only if the surgeon  
6 removes too much tissue.

7 Q. Okay. Now, well, won't you get  
8 some contraction from scarring even with a  
9 properly performed native tissue repair?

10 A. Not really. The vagina's  
11 different. If anything, you're going to get  
12 more relaxation, which is why there's a lower  
13 percentage rate, if it's not done correctly.

14 Q. Do you have an opinion as to  
15 what the percentage is of erosion or exposure  
16 with Gynemesh® PS?

17 A. No.

18 Q. Do you have an opinion as to  
19 what the percentage of recurrent prolapse is  
20 with Gynemesh® PS?

21 A. It's less than native tissue  
22 repair, but the number of complications and  
23 reoperations from mesh problems is much more.

24 Q. Okay. We'll break that out.

1                   What is the -- you said about a  
2        30 percent recurrence rate with native tissue  
3        repair is the generally recognized number.

4                   What is the generally  
5        recognized figure for recurrence of prolapse  
6        with Gynemesh®?

7       A.       A piece of Gynemesh®, right?

8       Q.       A piece of Gynemesh®?

9       A.       25.

10      Q.       25 percent?

11      A.       (Witness nods head.)

12      Q.       What is it with Prolift®, which  
13     is made out of Gynemesh®?

14      A.       18 to 25.

15      Q.       Then you said the complications  
16     are more, right?

17      A.       Yes.

18      Q.       That's what I heard in the  
19     second part of your answer.

20                  Can you give me any percentages  
21     as the complications with native tissue  
22     repair versus the complications with  
23     Gynemesh® surgery for prolapse?

24      A.       Would you ask the question

1 again?

2 Q. Yeah.

3 You said -- when I asked you  
4 what the comparative recurrence rates were,  
5 okay, you said, "Well, the recurrence rates  
6 are lower with Gynemesh® for prolapse, but  
7 there's more complications."

8 Okay. What I'm trying to do is  
9 figure out how much more.

10 A. Okay.

11 Q. So what would you say to that?

12 A. So with native tissue repair,  
13 the main issue is recurrence, which is why  
14 someone at some point thought let's do what  
15 we do in abdominal surgery and put a piece of  
16 mesh in there.

17 So what was the question again?

18 The --

19 Q. How would you compare the risk  
20 of complications with Gynemesh® used in  
21 prolapse repair versus complications from  
22 native tissue repair?

23 A. So you have a slightly higher  
24 recurrence rate with native tissue. You

1 don't have as much contracture. You don't  
2 have scarification. You don't have a foreign  
3 body reaction. You don't have a foreign  
4 piece of mesh in there. The pain with  
5 intercourse from anterior repair only is  
6 virtually negligible. If a woman has just an  
7 anterior repair, rates of pain with  
8 intercourse from an anterior repair are  
9 virtually zero.

10 If you add anterior -- if you  
11 add mesh to the anterior vagina, you have a  
12 slightly higher success rate, but you  
13 increase your chance of pain with  
14 intercourse. Exposure rates, 15 percent.  
15 Maybe higher. And that's in the short term.

16 I don't think anyone really  
17 knows if you get out five years what really  
18 happens with the bridging fibrosis and the  
19 stress yielding that that tissue gets thin  
20 and eventually pops through and then it  
21 starts the cycle with infection and erosion  
22 and vaginal discharge.

23 Q. So do you have any opinion as  
24 to what percentage of women that have had a

1 Gynemesh® PS product put in of any kind for  
2 prolapse, what percentage of them have had  
3 long-term complications?

4 Do you have an opinion on that?

5 A. No.

6 Q. Okay. Do you have an opinion  
7 of the percentage of women who have had a  
8 native tissue repair have had long-term  
9 complications?

10 A. Very rare.

11 Q. Okay. And have you done any  
12 literature review to try to determine what  
13 the long-term complications are with -- over  
14 a period of years for women who have had a  
15 Gynemesh® PS product used for prolapse?

16 A. I have.

17 Q. Okay. And have you found any  
18 literature?

19 A. There is very little papers  
20 that talks about pieces of Gynemesh® put in  
21 anteriorly or posteriorly.

22 Q. You're changing my question. I  
23 said Gynemesh® product.

24 Okay. So have you done any

1 literature search to determine any product  
2 that uses Gynemesh® in prolapse repair to  
3 determine what the long-term complications  
4 are?

5 A. Yes.

6 Q. Okay. And what have you found?

7 A. That the use of Gynemesh® in  
8 the vagina increases a woman's chance for  
9 reoperation for complications --

10 Q. No, I meant what papers have  
11 you found. I asked if you had done a  
12 literature search.

13 A. What papers?

14 Q. Yeah.

15 What papers -- well, let me  
16 back up.

17 Are there any papers in your  
18 report that address the issue of long-term  
19 complications with Gynemesh® PS product, any  
20 Gynemesh® PS product?

21 A. No.

22 Q. Okay. Do you believe that the  
23 long-term complications from Gynemesh® PS cut  
24 out of a sheet are less than the

1 complications connected with Prolift®?

2 A. Yes.

3 Q. Okay. How much less?

4 A little bit? A lot?

5 A. A lot less.

6 Q. Okay. Do you have an opinion

7 as to the percentage of erosion exposure with

8 Gynemesh® PS? Not Prolift®, just Gynemesh®

9 PS.

10 A. I'm not sure I understand the

11 question.

12 Q. For Gynemesh® PS used in

13 prolapse repair, not Prolift®, just Gynemesh®

14 PS cut out of a sheet, do you have an opinion

15 as to the percentage of exposures or erosions

16 that occur with that?

17 A. All the information I have is

18 the patients I see. I don't have a

19 denominator of how many went in.

20 Q. So you don't have a percentage

21 globally?

22 A. No.

23 Q. Okay. Exposures, erosions, can

24 they sometimes be asymptomatic?

1 A. Yes.

2 Q. Can they sometimes be treated  
3 in the office?

4 A. No.

5 Q. They can't be treated through a  
6 procedure in the office?

7 A. Well, let me clarify.

8 Q. Okay.

9 A. You can do that. You can take  
10 the scissors to an awake woman when the  
11 second you snip it, it bleeds, but it can't  
12 be adequately treated and here's why: When  
13 you have an exposure, what that means is that  
14 you have a portion of the graft that's in the  
15 vaginal lumen. A portion of that remaining  
16 graft as it goes laterally, wherever it goes,  
17 is covered by a very thin tissue of  
18 epithelium. The epithelium is not living  
19 tissue. Even if you trim it back and you  
20 make it smooth, that implant is still in the  
21 vaginal wall. The only way, effective way --  
22 and there's no guidance in any of the  
23 literature on how to do this or any of the  
24 internal documents I reviewed or the IFU of

1 how you deal with these complications. But  
2 if you're walking on a lake, at the edge of  
3 the lake it's very thick; you can stand on  
4 it. As you get towards the middle, the ice  
5 gets thin. So where it gets thin, you fall  
6 through.

7                   As you move back towards the  
8 edge, it's better. So the only way to  
9 effectively treat these mesh issues is not in  
10 the office. It's actually cruel and unusual  
11 punishment for the woman. It's to take her  
12 to the operating room and cut that mesh back  
13 either completely or to a point that the full  
14 thickness of the fibromuscular wall of the  
15 vagina is free of mesh. That is the only  
16 way.

17 Q.           Can some mesh exposures be  
18 treated without complete removal of the mesh?

19 A.           Can the exposure be removed  
20 that's visible? Yes, but can it be treated?  
21 No, because of what I just explained.

22 Q.           So you're saying any time  
23 there's a mesh exposure, almost all the mesh  
24 needs to be removed?

1 A. You have to cut it back.

2 Q. It's not what I asked. I'm  
3 just --

4 A. No.

5 Q. It doesn't have to all be  
6 removed?

7 A. Yes, it does.

8 Q. So any time you have a -- so  
9 even if you have like a 10-millimeter  
10 exposure, you should remove all of the mesh?

11 A. The way you're asking the  
12 question, I have to answer yes.

13 Q. Okay. Why am I asking it  
14 wrong?

15 A. Because the way I think as a  
16 surgeon is I want to fix this woman. And the  
17 way you're asking the question is you want me  
18 to do the minimal amount to get past it. So  
19 I'm honestly answering that. The treatments  
20 that have been set forth in helping these  
21 women are a problem, which is why all of  
22 these women have all these issues.

23 So, no, it can't -- it can't be  
24 partially removed.

1                   Q.         So if doctors, surgeons out  
2         there, if they, after surgery, three months,  
3         six months later, have a small, 10-millimeter  
4         or so exposure, you're saying that what they  
5         should do is remove all of the mesh at that  
6         time?

7                   A.         Yes, I would call that big. I  
8         think if there's a couple fibers, you can  
9         watch it. There is no evidence whatsoever to  
10        suggest that estrogen helps, but maybe if you  
11        rub it in there and you promote some blood  
12        flow or somehow, it may help with some  
13        fibers.

14                   But once you have -- it's sort  
15        of like a fistula. When you fix a fistula,  
16        even though the fistula is 45 millimeters,  
17        the defect around it, there's probably  
18        another circumference of 3 or 4 millimeters,  
19        which is why fistulas fail when you fix them.

20                   So if you're only removing that  
21        part that's on the thin ice, the example I  
22        used on the lake, the woman is going to have  
23        a problem because it's in the vaginal wall.  
24        So can you leave maybe a little behind? But

1 even when you do, it's been my experience in  
2 seeing these women that they're going to come  
3 back with pain because the edge now is no  
4 longer flat. The edge now pokes through the  
5 tissue. When the mesh is intact and it's  
6 flat, you have a sheet of human tissue over  
7 it, it's not poking her. When you cut it, it  
8 is like a sawblade poking at her because the  
9 fibers are like sutures poking through.

10 Q. Are you aware of any  
11 peer-reviewed literature that supports the  
12 proposition that regardless of the size of  
13 the exposure that all mesh should be removed,  
14 if there's an exposure?

15 A. No.

16 Q. Would you agree that there are  
17 many patients that have benefitted from  
18 Gynemesh® PS being used for prolapse?

19 A. No.

20 Q. Are there any?

21 A. No.

22 Q. Why do you say that?

23 A. It's a very biased view in the  
24 patients I see and their lives are totally

1       devastated from what's happened.

2           Q.       Well, I didn't ask about the  
3       patients you saw.

4                   Do you believe in the world are  
5       there many patients that have benefitted from  
6       Gynemesh® PS being used to treat their  
7       prolapse?

8           A.       I do not.

9           Q.       Okay. Do you believe there's  
10      any patients in the world that have  
11      benefitted from TVT® being used for their  
12      stress urinary incontinence?

13       A.       Some, yes.

14       Q.       Most, true?

15       A.       Based on the patients that are  
16      in the -- that have been followed and based  
17      on all the data that can be transposed to the  
18      world, okay, if you take Ulmsten's data and  
19      you take the Oga position paper, the Oga  
20      paper that is cited on the back of SUFU and  
21      AUGS and you look at the grade of the  
22      reports, those patients in those studies,  
23      they're not high-grade, quality studies, but  
24      there's about 15,000 patients that are

1 reported in there.

2 So if you extrapolate all that  
3 data, okay, I would agree that 85 percent of  
4 the women are cured of their incontinence.

5 What none of us know is what are the  
6 long-term consequences. Because when you  
7 look at that paper that's cited on the AUGS,  
8 SUFU statement position paper and you really  
9 read that paper, it actually talks about  
10 needing long-term data for mesh implants.

11 Q. And who is the author on that?

12 A. That was Oga.

13 Q. You don't believe there's any  
14 safe alternative for the use of mesh -- I  
15 mean, there's no safe use of mesh in the  
16 vagina for prolapse, true?

17 A. Not the current mesh that we  
18 have.

19 Q. Well, you can't identify --  
20 that would be the better way to say it.

21 You can't identify a mesh  
22 that's out there on the market that you would  
23 consider to be safe for prolapse repair,  
24 true?

1                   A.         From my reading of the  
2         documents, I have learned that there is a  
3         mesh that's better than polypropylene,  
4         Pronova.

5                   Q.         My question was do you know  
6         whether it's safe or not?

7                   A.         Based on the information I have  
8         and the characteristics of the mesh, it's  
9         safer.

10                  Q.         But that wasn't my question  
11         whether there was one safer.

12                  My question is it safe, would  
13         you use it in the vagina?

14                  A.         Yes.

15                  Q.         Okay. Why?

16                  What's different about it?

17                  Who makes Pronova, by the way?

18                  A.         Ethicon.

19                  Q.         What's safer about the Pronova?

20                  A.         So the fibers are completely  
21         different. When you look at certain  
22         studies --

23                  Q.         I'm going to have to withdraw  
24         and interrupt just a second.

1                   Has Pronova been used for  
2 prolapse repair successfully in studies?

3                   A.        Hasn't been used.

4                   Q.        Okay. But you believe if it  
5 was offered to you, you would use it for  
6 prolapse repair?

7                   A.        Yes.

8                   Q.        Okay. And even though it  
9 hasn't been proven in any studies?

10                  A.        It hasn't been used -- it's  
11 been looked at biocompatibility.

12                  Q.        Okay. All right. So briefly  
13 what is it about that mesh that you believe  
14 you would use it for prolapse repair?

15                  A.        The long-term inflammation is  
16 reduced.

17                  Q.        Because?

18                  A.        It's a different chemical.  
19 It's polyvinylidene fluoride.

20                  Q.        Okay.

21                  A.        And when they -- even Ethicon  
22 themselves has done testing on it, it is a  
23 much more stable filament than polypropylene,  
24 and studies where it's been implanted and

1 explanted, the filament doesn't show. The  
2 filament is cracks, the polypropylene shows.

3 I've read documents that says  
4 that the preparation of the polypropylene  
5 filament through the stretching and the  
6 heating creates a core that cools differently  
7 than the external, which is why the external  
8 is subjected to cracking. And there's metals  
9 that are used to stabilize it and peroxidases  
10 during the inflammatory process start to  
11 degrade it. It's a vicious cycle which is  
12 why the chronic reaction occurs.

13 Q. Is there any peer-reviewed  
14 literature establishing Pronova as a good  
15 product for prolapse repair?

16 A. No.

17 Q. When you have patients coming  
18 to you that have had mesh and they're having  
19 some issues with them, do you always  
20 recommend an explant of the mesh?

21 A. Ask the question again, please?

22 Q. Yeah.

23 Did you have patients coming to  
24 you -- you said from all over -- that have

1 had a mesh product implanted in them, do you  
2 always recommend explanting of the mesh?

3 A. No.

4 Q. When do you not?

5 A. When there's nothing clinically  
6 that I think I can add by removing it.

7 Q. Okay. Do you ever have  
8 patients come to you who say, "I'm not having  
9 any problems or much problems, but I would  
10 still like the mesh taken out"?

11 A. Yes.

12 Q. Okay. Do you take it out under  
13 those circumstances?

14 A. No.

15 Q. Okay. I think there are some  
16 that do that, that's why I asked.

17 What is your charge for an  
18 explant procedure?

19 A. I accept insurance. Whatever  
20 the insurance pays.

21 Q. And how many of those do you do  
22 each year?

23 A. As I mentioned earlier, I've  
24 narrowed it down. In 2015, I took out 296

1 implants.

2 Q. And before that, it was another  
3 20 percent or something above that?

4 A. I think I hit 400 one year, and  
5 I decreased the number.

6 Q. Have you ever had any nerve  
7 entrapment in any -- have you ever found any  
8 nerve entrapment as a part of your explant  
9 procedures?

10 A. Yes.

11 Q. Rarely?

12 A. Yes.

13 Q. Okay. How do you know that  
14 there's nerve entrapment as you do an explant  
15 procedure?

16 Is that confirmed by pathology,  
17 or what's your basis for that?

18 A. The TVT® sling was attached to  
19 the obturator nerve directly, and I touched  
20 the mesh to free it up and the patient's leg  
21 jumped.

22 Q. Was that as a result of a  
23 surgical technique problem?

24 A. It's a result of the IFU and

1       the directions that's given to the surgeon to  
2       use a large trocar.

3           Q.        Okay.  Was that the only  
4       occassion you've had a nerve entrapment  
5       problem?

6           A.        It's been several times.  I  
7       don't like giving an exact number because I  
8       don't track all of those things.  What I  
9       track is how much I help patients with what I  
10      do.

11          Q.        But that was something -- was  
12       the nerve -- in the example you gave, was the  
13       nerve entrapment, did that occur -- was that  
14       producing symptoms for the patient?

15          A.        Yes.

16          Q.        Okay.  Now, before the  
17       Prolift®, when it's -- strike that.

18                   Gynemesh® PS, Gynemesh® PS has  
19       bidirectional elasticity, doesn't it?

20          A.        Yes.

21          Q.        And it maintains that to some  
22       degree once it's put in the body, true?

23          A.        No.

24          Q.        Not at all?

1 A. The elasticity.

2 Q. Bidirectional elasticity to  
3 some degree remains with the Gynemesh® PS  
4 when it's put in the body?

5 A. Oh, let me change my answer to,  
6 yes, in the short term.

7 Q. Okay. How much Gynemesh® PS is  
8 used typically -- not Prolift®, just  
9 Gynemesh® PS, used for a prolapse repair?

10 How much is used?

11 A. Depends where --

12 Q. Anterior.

13 A. Anteriorly?

14 Depends on the woman's vagina,  
15 but let's say average of 7 centimeters by 6.

16 Q. Okay.

17 A. Maybe -- and there's longer and  
18 wider depending on the bony structure.

19 Q. How about posteriorly?

20 A. The posterior segment tends to  
21 be a little longer. 9 by 5.

22 Q. The meshes from other companies  
23 that use -- that are used for prolapse, do  
24 any of those have bigger pores or lighter

1 weight?

2 A. I want to make sure I  
3 understand the question.

4 Q. Yeah.

5 There's other mesh products  
6 that can be used for prolapse repair, right?

7 A. Yes.

8 Q. Have any of those had a lighter  
9 weight or bigger pores than a Gynemesh® PS?

10 A. Yes.

11 Q. Okay. Which one?

12 A. Coloplast is much lighter.

13 Q. Okay. And when did that come  
14 on the market?

15 A. I can't tell you the exact  
16 date. Probably in the last seven, eight  
17 years.

18 Q. What's its gram per meter  
19 squared?

20 What's its weight?

21 A. It's -- I think it's 27.

22 Q. And what is Gynemesh® PS?

23 A. 45.

24 Q. Are you familiar with any

1 peer-reviewed literature that is critical of  
2 the pore size or weight of Gynemesh® PS?

3 A. No.

4 Q. Have you ever written in a  
5 medical record that a patient had clinical  
6 problems resultant to particle loss or  
7 degradation?

8 A. No.

9 Q. Did you review the -- strike  
10 that.

11 I asked you before some  
12 questions, and I can't remember whether they  
13 were TVT®-related or not, but have you  
14 reviewed other warnings information that was  
15 given to doctors other than the IFU with  
16 respect to Gynemesh® PS products?

17 A. I reviewed everything that was  
18 given to me. I don't recall specifically at  
19 this time.

20 Q. Do you recall reviewing the  
21 surgeon's monograph with respect to the  
22 Gynemesh® PS products?

23 A. I don't recall.

24 Q. Did you read the Prolift® IFU

1       when you used it that one time?

2           A.       I did.

3           Q.       Had you read it since until you  
4       became involved in this litigation?

5           A.       I read it again.

6           Q.       When you became -- that's what  
7       you mean.

8           A.       Yes.

9           Q.       But the gap of years, you  
10      hadn't read it in between?

11          A.       I looked at it from time to  
12      time. I read a lot of IFUS. As I mentioned  
13      earlier, I own all of the products because I  
14      have to study them on how they're designed to  
15      be able to remove them. Elevate's different  
16      than Apogee and Perigee® and Avaulta®. So I  
17      do review them from time to time.

18          Q.       And did you say you have not  
19      served as an expert witness against any other  
20      company?

21          A.       I'm not sure I answered that  
22      question.

23          Q.       Okay. Have you?

24                   I'll ask you again.

1 A. Yes, I have.  
2 Q. Which against?  
3 A. Boston Scientific.  
4 Q. And what product?  
5 A. Prefyx and Solyx.  
6 Q. And what are those?  
7 A. Those are -- one is a  
8 single-incision sling and the Prefyx --  
9 Q. Is that like a TVT-Secur?  
10 A. Different. It has plastic  
11 arrowheads that attach to the muscles.  
12 Q. Okay. So which one is that,  
13 Solyx or Prefyx?  
14 A. Sorry, the single incision.  
15 Q. Yes.  
16 A. Solyx.  
17 Q. So you've testified as an  
18 expert witness against the Solyx product?  
19 A. Yes.  
20 Q. You said that it is -- never  
21 should have been on the market?  
22 A. Yes.  
23 Q. Okay. And what about Prefyx,  
24 what kind of product is that?

1 A. That's a sling.

2 Q. Okay. What kind of sling?

3 A. Prepubic.

4 Q. Okay. Different from  
5 retropubic?

6 A. It's in front.

7 Q. Okay. And what's the problem  
8 with it?

9 Well, let me ask you this: On  
10 both of those products, have you been  
11 critical of the instrumentation?

12 A. Yes.

13 Q. Have you been critical of the  
14 technique described in the IFU?

15 A. Yes.

16 Q. And have you been critical of  
17 the design of the material?

18 A. Yes.

19 Q. Okay. And you don't believe  
20 either one of those should have been  
21 marketed?

22 A. No.

23 Q. Okay.

24 A. And they're not on the market.

1 Q. Okay.

2 A. They're gone.

3 Q. So is there any sling product  
4 in the world that -- polypropylene sling  
5 product in the world that you believe is safe  
6 in all aspects: Instrumentation, technique,  
7 and material?

8 A. No.

9 Q. Is there any polypropylene  
10 sling product in the world that you believe  
11 is reasonably safe with respect to the  
12 material, the mesh material?

13 A. No.

14 Q. Okay. When do you do an ASC?  
15 Under what circumstances?

16 A. So I'll perform an ASC on a  
17 patient that is a younger woman, someone that  
18 has a shortened vagina, someone that has --

19 Q. These are alternatives, or they  
20 have to have all of these things?

21 A. No, it's either --

22 Q. This or that?

23 A. This or that.

24 Q. Okay.

1                   A.         Someone who has a job that  
2         requires heavy lifting. Someone that has  
3         asthma or bronchitis. Just a more durable  
4         repair. She needs a more durable repair.

5                   Q.         Was it within the standard of  
6         care up until 2012 for a surgeon to use  
7         Gynemesh® PS products in repair of prolapse?

8                   A.         Would you ask the question  
9         again?

10                  Q.         Yeah.

11                  Was it within the standard of  
12         care, the acceptable standard of care, for a  
13         surgeon to use a Gynemesh® PS product for  
14         prolapse repair up through 2012?

15                  A.         Yes.

16                  Q.         Was it within the standard of  
17         care for doctors to use TVT® for SUI, even  
18         today?

19                  A.         Yes.

20                  Q.         Okay. Did any doctor at your  
21         hospital ever use TVT®?

22                  A.         Yes.

23                  Q.         Okay. Do some still do today?

24                  A.         I think there might be one.

1 Q. Okay. Did any doctors at your  
2 hospital ever use Gynemesh® PS for prolapse  
3 repair?

4 A. I don't think so.

5 MR. BALL: Okay. Why don't we  
6 take a break. I think I'm about  
7 finished here. I've got to regroup a  
8 little bit here.

9 (Off the record at 1:32 p.m.)

10 QUESTIONS BY MR. BALL:

11 Q. Doctor, would an experienced  
12 surgeon before 2005 performing prolapse  
13 surgery with Gynemesh® PS know that pain with  
14 intercourse was a possible complication?

15 A. Yes.

16 Q. Would an experienced surgeon  
17 before 2010 using Gynemesh® PS for prolapse  
18 know that vaginal scarring was a possible  
19 complication?

20 A. Yes.

21 Q. Would they know that infection  
22 was a possible complication?

23 A. Yes.

24 Q. Would they know that urinary

1 frequency, urgency, dysuria, retention,  
2 obstruction and incontinence were possible  
3 complications?

4 A. If we could break that question  
5 up again.

6 Q. Yeah.

7 Would an experienced surgeon  
8 before 2010 know that urinary frequency would  
9 be a possible complication after prolapse  
10 surgery with Gynemesh® PS?

11 A. No.

12 Q. What about urgency?

13 A. No.

14 Q. What about dysuria?

15 A. No.

16 Q. What about retention?

17 A. No.

18 Q. So is retention a recognized  
19 problem with Gynemesh® PS used for prolapse  
20 surgery?

21 A. Depends on how tight you make  
22 it.

23 Q. Is it a potential complication?

24 A. Yes.

1 Q. And that wouldn't have been  
2 known as a possible complication before 2010?

3 A. No.

4 Q. Why do you say that?

5 A. I don't think anyone knew  
6 exactly what would happen when you put mesh  
7 in there.

8 Q. Was incontinence a potential  
9 complication?

10 A. Yes.

11 Q. That was known before 2010?

12 A. Yes.

13 Q. Okay. Organ nerve damage, was  
14 that a potential complication that was known  
15 to experienced surgeons using Gynemesh® PS  
16 before 2010?

17 A. Yes.

18 But it's a different kind of  
19 nerve damage than -- they would know about it  
20 because they have to open the vaginal wall  
21 up.

22 What they didn't know was the  
23 consequence that would happen, you know,  
24 they're cutting the vagina, they're opening

1 it up and we talk about nerve damage, did  
2 they know about it.

3 So, yes, they would know about  
4 it because they're doing surgery. But what  
5 they wouldn't know about is the fact that  
6 they're going to put an implant in her that's  
7 then going to constrict and change  
8 everything.

9 Q. Would an experienced surgeon  
10 before 2010 using Gynemesh® -- in and before  
11 2010 using Gynemesh® PS for prolapse know  
12 that there was a potential of contraction?

13 A. No.

14 Q. Would they know that there was  
15 a potential of scar formation?

16 A. Not the kind of scar we're  
17 talking about.

18 Q. I'm not talking about degrees.

19 Would they know that there  
20 would be some degree of contraction from  
21 scarring with the use of Gynemesh® PS, would  
22 an experienced surgeon know that before 2010?

23 A. I'm not sure I know how to  
24 answer the question. Because the way I'm

1 thinking about it as a surgeon is I'm going  
2 to get scarring from just doing surgery, and  
3 I think I answered, yes, that there is  
4 scarring from doing that.

5                   But if you're asking the  
6 question is the scarring the same when  
7 putting in the mesh, then the answer is no.

8                   Q.        No, that's not what I'm asking.

9                   A.        Okay.

10                  Q.        They know they're going to  
11 create a scar by putting in mesh, right?

12                  A.        They know they're going to  
13 create a scar by doing surgery.

14                  Q.        And they know that they're  
15 going to create -- well, won't there be  
16 scarring connected with the implantation of  
17 the mesh, right?

18                  A.        Yes.

19                  Q.        And wouldn't every experienced  
20 surgeon before 2010 know that there will be  
21 some contraction connected with the scarring  
22 of the mesh surgery?

23                  A.        No. I didn't know. I didn't  
24 know.

1           Q.       Before 2010, would an  
2       experienced surgeon -- so you're saying at no  
3       time versus before 2010 would an experienced  
4       surgeon know that there would be the  
5       potential for contraction connected with mesh  
6       surgery?

7           A.       I'm answering that question  
8       honestly on what I knew. I don't know what  
9       other people knew so I'm answering that  
10      question based on what I knew. I was  
11      surprised the first time that I had a patient  
12      that had a contraction like that.

13          Q.       And that was 2010, after 2010?

14          A.       I'm not sure exactly when, but  
15      around that time frame. When the literature  
16      started talking about contraction and mesh  
17      exposure and et cetera, it all made sense.

18          Q.       Would the average surgeon in  
19      2010 and before know that there was a  
20      potential of erosion or exposure from mesh,  
21      from Gynemesh®, used in prolapse?

22          A.       Yes.

23          Q.       And would the average surgeon  
24      in 2010 or before know that there was a

1 potential for another surgery after the use  
2 of the mesh for prolapse?

3 A. Probably not.

4 Q. Would they know there was the  
5 possibility that some mesh might have to be  
6 removed?

7 A. I think what they -- no, what  
8 they knew is that they were going to apply  
9 silver nitrate in the office and put some  
10 estrogen on it and that would take care of  
11 it, and it didn't.

12 Q. So you don't think the average  
13 surgeon knew that a possible complication of  
14 using Gynemesh® for prolapse was that there  
15 might need to be surgery to remove some of  
16 the mesh?

17 A. No.

18 Q. Did the average surgeon in 2010  
19 or before know that if they used Gynemesh®  
20 for prolapse there might be a recurrent  
21 prolapse?

22 A. No.

23 Q. They thought it was going to be  
24 100 percent successful?

1                   A.         Oh, they thought it was going  
2        to be fantastic.

3                   Q.         100 percent?

4                   A.         Close to it. 100 percent  
5        doesn't exist in clinical medicine, but --

6                   Q.         Well, I asked did they know  
7        that a potential complication was that there  
8        would be a recurrent prolapse?

9                   A.         I don't think they did, no.

10                  Q.         Okay. Did the average surgeon  
11      in 2010 or before know that the -- there was  
12      a potential for a long-term foreign body  
13      response from the mesh?

14                  A.         Absolutely not.

15                  Q.         Did the average surgeon in 2010  
16      or before who implanted TVT® know that there  
17      was a potential for pain with intercourse?

18                  A.         No.

19                  Q.         Did that person know that there  
20      was the potential for vaginal scarring?

21                  A.         No.

22                  Q.         The potential for erosion or  
23      exposure?

24                  A.         Probably, yes.

1 Q. The potential for a chronic  
2 foreign body response?

3 A. No.

4 Q. The potential for a failure of  
5 the procedure to cure the SUI?

6 A. Yes.

7 Q. The potential for an additional  
8 surgery?

9 A. Yes.

10 Q. The potential for some of the  
11 mesh to be removed?

12 A. No.

13 Q. And the potential of  
14 contraction of the TTVT®?

15 A. No.

16 Q. When do you think that doctors  
17 became aware of the problems that you've  
18 described for us today?

19 When did the medical community  
20 become aware of the problems that you've  
21 described about TTVT® and Gynemesh®?

22 A. After 2011.

23 Q. Okay. And what happened in  
24 2011?

1                   A.         Well, there was the initial FDA  
2                    announcement that that some of these things  
3                    might be rare, and then in 2011 when it  
4                    wasn't rare, and it all just kind of blew up.

5                   Q.         You said there was the initial  
6                    announcement.

7                                  When was that?

8                   A.         I believe it was 2008.

9                   Q.         Right.

10                                 So wasn't there general  
11                   knowledge in the medical community in 2008 of  
12                   these problems that I just listed?

13                   A.         To some degree, but it wasn't  
14                   really an awareness. I didn't -- I'm  
15                   answering the question honestly based on what  
16                   I knew because that's what I know. I'm not  
17                   sure what other people knew. Maybe there  
18                   were some that are more alert and smarter  
19                   than me out there, but I didn't know the  
20                   extent that all of these problems would exist  
21                   until after 2011 and especially 2012.

22                                 I would see patients, and I  
23                   didn't think it was the mesh either. I  
24                   didn't really know what to tell them until

1 all of these announcements happened.

2 Q. Your referrals for explants,

3 where do they come from?

4 A. They are global.

5 Q. Let me ask you this, a simpler  
6 question.

7 Do any of your referrals for  
8 explants come from lawyers, where the  
9 patients were referred by lawyers to you?

10 A. So the short answer is yes  
11 because these patients ask their lawyers  
12 where can I get help. So at least in  
13 St. Louis I am one of the people that can fix  
14 this. My referrals come from other doctors,  
15 other patients, other surgeons, that put in  
16 mesh, urologists, gynecologists, internal  
17 medicine doctors.

18 Q. And lawyers?

19 A. Yeah.

20 Q. Okay. Do you know what  
21 percentage of your referral practice comes  
22 from people involved in litigation?

23 A. It's a very small percentage.  
24 2 percent.

1 Q. Do you ask every one of your  
2 explant patients whether they're involved in  
3 a lawsuit?

4 A. I do not.

5 Q. So how do you have any basis  
6 for knowing that?

7 A. They fill out a little piece of  
8 paper.

9 Q. About referral?

10 A. About referral, and it says  
11 "Attorney."

12 Q. Okay. So my question -- I  
13 appreciate that. My question is a little bit  
14 different.

15 I'm not talking about people  
16 who are directly referred. I'm asking about  
17 what percentage of your patients are involved  
18 in a lawsuit.

19 A. I don't know. I don't ask.  
20 It's really none of my business.

21 Q. And you don't ask?

22 A. I don't ask.

23 Q. Are you familiar with any  
24 medical principle that complaints of pain can

1      be affected by secondary gain?

2            A.        I'm sure there are, which is  
3        why when patients show up, if I can't find  
4        more than one reason -- and I just submitted  
5        an abstract to the AUGS; it's not accepted  
6        yet -- very few patients present with a  
7        single symptom that I've operated on. They  
8        usually have pain, erosion, failure of the  
9        device.

10           So it's -- I'm not -- I don't  
11        know if you're implying, maybe you're not,  
12        but I'm going to answer the question. I'm  
13        not looking to remove the mesh when there's  
14        no problem. I put it in. So if it's working  
15        fine, and I think it's in the best interests  
16        of the patient to leave it alone, I leave it  
17        alone.

18           But there's a large number of  
19        patients that truly have problems that don't  
20        know where to get help. There was a paper by  
21        I think Shakain and Posen that said many  
22        years ago that there ought to be referral  
23        centers.

24           Q.        Shakitan and Kosan?

1 A. Is that how you say his name?

2                       Okay. There's a bunch of  
3 papers that I reviewed, and I can't say their  
4 names. They're not in my reports, but I  
5 don't know what's on the thumb drive. I  
6 think I got 52 discs or something like that.  
7 So that there ought to be places where these  
8 women can have help.

9                           So that, to me, was the first  
10          time that someone recognized that these women  
11          have legitimate problems, and there is  
12          nothing anywhere to help guide care for them.

13 Q. Tell me about the paper you  
14 submitted to AUGS.

15 A. It's an abstract.

16 Q. An abstract.

17 A. An abstract.

18 Q. And was it based on a study, or  
19 what's it about?

20               A.         All it's doing so far -- I  
21       think it -- after going through this and  
22       being deposed, I think I will write it up. I  
23       wasn't planning on it. But all it was was  
24       looking at how many of these issues are

1        slings and how many are prolapse kits.  
2        That's all it really was looking at, but I'm  
3        going to reconsider that.

4                   So the vast majority are  
5        slings.

6                   Q.        The vast -- and you told us  
7        that earlier in the deposition.

8                   A.        Okay.

9                   Q.        The vast majority of your  
10        explant procedures are slings?

11                  A.        Yes, sir.

12                  Q.        Of various manufacturers?

13                  A.        Yes.

14                  And it's not mentioned who they  
15        are in the paper.

16                  Q.        And you don't know enough about  
17        market share and everything to determine  
18        whether the TVT® is overrepresented in your  
19        practice or not?

20                  A.        No, but I'm going to see if I  
21        can learn.

22                  Q.        Would you say that a warning is  
23        adequate if it gives a doctor sufficient  
24        information to counsel patients and make a

1 surgical decision?

2 A. Would you repeat that?

3 Q. Yeah.

4 Would you say a warning is  
5 adequate if it gives the doctor sufficient  
6 information to counsel patients and make a  
7 surgical decision?

8 A. If it gives adequate  
9 information?

10 Q. No, gives sufficient  
11 information is what I meant to say.

12 You said in here sometimes the  
13 warnings are inadequate?

14 A. Yes.

15 Q. You've said that. So I'm  
16 trying to get your definition of what  
17 inadequate is. Maybe I'll just ask that.

18 What's your definition of an  
19 adequate warning?

20 A. Percentages, how often does it  
21 happen, what's the severity.

22 Q. Of complications?

23 A. Yes, how is it addressed.

24 Q. Are you aware of any warnings

1 related to any kind of vaginal surgery from  
2 any manufacturer that gives percentages of  
3 complications?

4 A. Unfortunately, none do.

5 Q. Okay. So these photographs  
6 that are in your Gynemesh® report, which is  
7 Exhibit 3, what is the significance of those  
8 photographs?

9 They're at page 7, et cetera.

10 7 and 8.

11 A. So it shows the bunching, the  
12 rolling, the cording, the excessive  
13 scarification of the mesh once it's placed.

14 It doesn't --

15 Q. So let's take the photograph on  
16 page 8.

17 Tell me what that's showing,  
18 photographs.

19 A. I have page 7, want me to go to  
20 page 8?

21 Q. Yeah.

22 A. So it's showing a section of  
23 Gynemesh® that's been explanted. It's been  
24 cut in the middle and where the surgeon cut

1 it in a square, it has folded and corded near  
2 the lateral edges.

3 Q. Okay. And maybe we will use  
4 Jim's color ones.

5 Show me what you're talking  
6 about.

7 A. See how it's folded and rolled  
8 right there? Are we looking at the right  
9 one?

10 Q. Yeah. Well, I'm not seeing any  
11 folding.

12 So that's the mesh folding and  
13 rolling on the top picture on page 8?

14 A. Yes. And it can't been seen  
15 easily because it's encased in scar tissue  
16 and tissue. It's not a single flat layer.

17 Q. I can't tell that, but if I'm  
18 assuming --

19 A. Compare it to the picture below  
20 it.

21 Q. Okay. Which is what?

22 A. It's another -- it's the piece  
23 of Gynemesh® from the above picture in closer  
24 magnification. You see how it's nice and

1 flat and the edge here is rolled?

2 Q. I'm not being difficult. I

3 don't see it, but I wanted to hear what you

4 had to say about it so I've heard that.

5 I appreciate it.

6 A. Okay.

7 Q. You say on page 10 --

8 A. If I could interrupt for a

9 second, a better page to represent the

10 folding is on page 7.

11 Q. Okay.

12 A. On this one, maybe you can see

13 it a little bit better, it's a lot thicker.

14 See, it's thicker?

15 Can you see the edges?

16 Q. I see it's thicker. I guess

17 that just meant more tissue came with it.

18 A. No. My technique is such that

19 it scrapes it off and it's folded.

20 I'm sure I have the picture

21 laterally head-on.

22 Q. So what you're saying in all of

23 these photographs what we're seeing is almost

24 totally mesh, not tissue?

1 A. Yes.

2 Q. Okay. That might have been my  
3 misunderstanding.

4 A. Yes.

5 Q. So if they're thicker, if the  
6 piece is thicker in the photograph, it's  
7 thicker because the mesh has rolled over is  
8 what you're saying; not thicker because it  
9 happens to have more tissue connected with  
10 it?

11 A. Correct. If I did that, I  
12 would be removing the woman's rectum and  
13 bladder.

14 Q. Go to page 10 of your Gynemesh®  
15 report, it says in the middle of the page,  
16 "The Gynemesh® PS contains pore sizes much  
17 smaller than the necessary 1 millimeter."

18 A. Yes.

19 Q. This gets to the variable pore  
20 size you were talking about before?

21 A. Yes.

22 Q. Do you know what percentage of  
23 them are smaller than 1 millimeter, and what  
24 percentage are larger?

1           A.       I didn't do a calculation on  
2       the percentage, no.

3           Q.       How would Ethicon be able to  
4       determine the percentage of complications?

5                   You said a warning to be  
6       adequate needed to give the percentage of the  
7       potential complications such as erosion and  
8       nerve damage and --

9           A.       Yes.

10          Q.       -- contraction, et cetera.

11                   How would Ethicon determine the  
12       percentages to put in an IFU?

13          A.       What they would have had to do  
14       when all of this -- when these products  
15       started is very similar to what's given to a  
16       patient that has a pacemaker, a card. Each  
17       of those cards is registered with the company  
18       so the company knows how many implants went  
19       in. That patient carries that card and if  
20       there's a complication, the patient calls a  
21       number to report these complications and then  
22       the patient is seen by a doctor to confirm  
23       that.

24          Q.       Well, that process would have

1       taken years in order to get reliable  
2       percentages of complications, true?

3           A.       Yes, but the company should  
4       have done a project like that prior to  
5       releasing it to the average surgeon.

6           Q.       So how many patients would have  
7       had to have Prolift® put in at the clinical  
8       trial stage before the product went on the  
9       market in order to get reliable percentages  
10      of complications in your view?

11          A.       500.

12          Q.       Other than pacemakers, do you  
13      know of any other product that used the kind  
14      of procedure you just described?

15          A.       Yes. I believe you mentioned  
16      your daughter works in the ICU. So when  
17      someone comes in with a neurovascular injury  
18      and needs a coil, those patients get a little  
19      card that lets them know that they have coils  
20      in, et cetera, stents, filters.

21          Q.       Is the Gynemesh® PS any more  
22      stiff and inflexible than other kinds of  
23      meshes used for prolapse?

24          A.       It's less stiff than some, and

1 more stiff than others.

2 Q. But I think your view is  
3 they're all too stiff and inflexible?

4 A. Yes.

5 Q. Okay. Now, back to our report  
6 on -- the clinical reports at pages 21 and  
7 22, those are footnoted at footnotes 34, kind  
8 of like through 30 -- through 39 of your  
9 report, right?

10 A. Yes.

11 Q. Do you believe that you gave a  
12 fair and balanced representation of the  
13 findings of those reports?

14 A. I do.

15 Q. Okay. Now, did those reports  
16 have conclusions in them?

17 A. Some did, yes.

18 Q. Okay. Did you cite the  
19 conclusions in your report?

20 A. I didn't cite the exact  
21 conclusion. What I do is I review everything  
22 that's available, and I abstract the  
23 information and --

24 Q. So did the people that prepared

1 those reports -- you've written in here that  
2 the study demonstrated that the mesh was not  
3 an effective prolapse treatment and presented  
4 unreasonable risks?

5 A. Yes.

6 Q. Was that the conclusion of the  
7 study?

8 A. On the conclusion by Karram,  
9 Maher on posterior vaginal wall prolapse,  
10 absolutely.

11 Q. No, I'm saying the conclusion  
12 of the study that's referenced at footnote  
13 34.

14 A. So I was looking at the wrong  
15 one. So footnote 34 --

16 Q. Footnote 34 is the clinical  
17 study report.

18 A. Yes.

19 Q. And you cite data from the  
20 clinical study report, and you say your  
21 conclusion was that the mesh was not  
22 effective prolapse treatment and presented  
23 unreasonable risks.

24 Did the people who did this

1 study reach that conclusion?

2 A. Yes.

3 Q. Okay. They reached that same  
4 conclusion?

5 A. Yes.

6 There were serious adverse  
7 events. They had to distinguish between  
8 transvaginal mesh and what was Prolift®. So  
9 they didn't even met their success rate.  
10 Even though they had a success rate of  
11 20 percent, they were, I believe, 18.5, they  
12 were really close to not being as successful  
13 as they wanted.

14 Q. Well, you quoted a number of  
15 pieces of data in here.

16 Why did you not quote the  
17 specific conclusion from the people that did  
18 the study?

19 A. I thought I summarized it to  
20 the best of my ability everything that was  
21 available to me. There's so many reports, so  
22 many papers --

23 Q. I'm talking about these reports  
24 that you quoted specifically.

1                   Why did you not quote the  
2 conclusion of the report?

3                   You quoted the data, but you  
4 didn't quote the conclusion.

5                   Why is that?

6                 A.       At the time I thought that was  
7 the most important piece of information that  
8 I placed in the report.

9                 Q.       When you're giving your  
10 opinions as to whether the IFU adequately --  
11 for the Gynemesh® PS and TTV® provides an  
12 adequate warning of the risks and  
13 complications, are you basing that on your  
14 own opinions and experience?

15               A.       I'm basing it on the totality  
16 of everything that was known from the  
17 internal documents at Ethicon, all the  
18 material that was available to me, and  
19 knowing what's in the IFU, knowing what the  
20 company knew that they didn't include and my  
21 own experience.

22               Q.       Is there any objective standard  
23 that you are applying in determining whether  
24 the warnings were adequate?

1 A. Yes.

2 Q. What's the objective standard?

3 A. If, for example, it's mentioned

4 repeatedly in the internal documents for a

5 very long time that there's a problem with

6 the product, and they're not including it,

7 that's not a fair representation of

8 truthfulness of what's wrong with the product

9 or not.

10 Q. What's the objective standard

11 you're applying in reaching that conclusion?

12 A. I'm not sure I understand the

13 question then.

14 Q. Well, then sometimes they're

15 like FDA regulations, there's industry

16 standards.

17 Is there any kind of standard

18 you can point to and say, "This is the

19 standard that should have been applied to the

20 warning," and they didn't meet it?

21 A. Yeah, Ethicon's own -- where it

22 says our credo is to take care of our

23 doctors, our nurses and our patients. They

24 had an obligation if they knew that these

1       meshes had biodegradable components and they  
2       knew it, and they have a credo that says  
3       we're going to take care of our doctors, our  
4       nurses and our patients, and they put it in,  
5       I think that's a very objective way of saying  
6       they knew about it, and they didn't disclose  
7       it.

8           Q.        You do not rely upon internal  
9       company documents in making decisions for  
10      your patients, true?

11          A.        I don't get -- no, I don't have  
12      internal document access.

13          Q.        Right.

14               And other than the Boston  
15      Scientific products you've mentioned, other  
16      than the two Ethicon products here, are there  
17      any other products you've been engaged upon  
18      to testify about?

19          A.        I've been deposed as an expert  
20      on those two products we've talked about.

21          Q.        Plus the two today?

22          A.        Yes.

23          Q.        And that's it?

24          A.        Yes.

1 Q. Okay. Now, all of the  
2 materials that you reviewed in this matter  
3 were sent to you by the lawyers for the  
4 plaintiffs?

5 A. Yes.

6 Q. Okay.

7 A. 52 discs.

8 MR. BALL: And they're all in  
9 the CD, all 52 of them; is that right?

10 MR. MATTHEWS: It's what my  
11 paralegal says. I promise -- I have  
12 not looked at it to verify that.

13 QUESTIONS BY MR. BALL:

14 Q. Did you ask the lawyers whether  
15 there were any other documents or depositions  
16 other than what they gave you?

17 A. I don't think I did.

18 Q. And did you do any research of  
19 your own into the medical literature  
20 independent from the medical papers they gave  
21 you?

22 A. Yes, I did.

23 Q. And how did you do that?

24 A. I subscribe to -- I'm a member

1 of the International Gynecologists  
2 Association, so I went on the website and I  
3 put in keywords searching the Blue Journal,  
4 International Journal of Urogynecology. I  
5 did the same for the American Journal of  
6 OB/GYN. I did the same for Obstetrics and  
7 Gynecology. And then I asked my librarian to  
8 do a search, and I asked her to do a search  
9 for "Gynemesh®" and "TVT®."

10 Q. Okay. Did you come up with any  
11 papers that were different or additional to  
12 what the lawyers had given you?

13 A. There were some different ones,  
14 but when I looked at them, I didn't really  
15 think that they added -- either had bias,  
16 they were either employees of Ethicon, or  
17 they were -- the studies were funded by  
18 Ethicon or there were weaknesses in the  
19 methodology so I didn't use them.

20 Q. So your opinion that there is  
21 no reasonably safe mesh product for SUI,  
22 would you agree that there's a large body of  
23 published peer-reviewed literature that runs  
24 counter to that opinion?

1 A. I do.

2 Q. Okay.

3 A. But here's what else I know:

4 Everyone understands, clinicians, doctors,  
5 companies, that we need lightweight,  
6 macroporous mesh. And they've done wonders  
7 to try to conduct research on that. There is  
8 a paper by Mowali that even says that the  
9 current Gynemesh® PS when placed in rhesus  
10 monkeys not only doesn't help, it's  
11 detrimental to the vagina of a rhesus monkey,  
12 which is probably the best paper out there  
13 because it's not a pig, it's not a cow, it's  
14 not skid. It's the closest to the human  
15 vaginal tissue as possible. Not only does it  
16 not help, it's detrimental. Every aspect of  
17 healing is impaired by Gynemesh® PS.

18 So everyone knows that we need  
19 lighter weight meshes, and yet every single  
20 company, including Ethicon, continues to use  
21 a sling that's 100 grams per meter squared.

22 MR. BALL: Okay. I'll just

23 have to move to strike everything  
24 after the words "I do."

1       QUESTIONS BY MR. BALL:

2           Q.     Would you agree that the  
3     general scientific consensus is not in line  
4     with your opinion that there is no reasonably  
5     safe polypropylene sling for use with SUI?

6           A.     No.

7           Q.     That's not the general  
8     consensus, true?

9           A.     I don't think it's a general  
10    consensus.

11          Q.     Okay. Thank you.

12           Can you tell me -- if you saw  
13    studies and decided not cite them in your  
14    reports, can you tell me what criteria you  
15    used to what was cited in the report and what  
16    wasn't?

17          A.     Number of patients, follow-up,  
18    if the report was done by someone that I  
19    identified in my reading as an employee of  
20    Ethicon or if the study was funded by  
21    Ethicon. Those have a lot of bias to them.

22          Q.     Well, are you saying that  
23    studies funded by a company in which  
24    companies participate are automatically not

1 reliable?

2 A. They have bias to them.

3 Q. I didn't ask that.

4 Are they automatically not  
5 reliable?

6 A. Sometimes, yes.

7 Q. All of them?

8 A. I wouldn't say all of them.

9 Q. There's a lot of good  
10 scientific data that's produced by studies  
11 funded by companies, true?

12 A. Some.

13 Q. Would you agree that your  
14 opinion that there is no safe TVT® -- strike  
15 that.

16 Would you agree that your  
17 opinion that TVT® was so unsafe it never  
18 should have been on the market is not  
19 generally accepted in the scientific medical  
20 community? You agree with that?

21 A. Yes.

22 Q. Okay. So did you automatically  
23 not consider any study that had any funding  
24 from Ethicon?

1 A. I considered it.

2 Q. Did you automatically not cite  
3 in your report any study if it had funding  
4 from Ethicon?

5 A. No.

6 Q. You didn't cite it?

7 A. No, and that's not the question  
8 I'm answering.

9 Q. I am sorry.

10 You still would include it in  
11 your report although it might have been  
12 funded by Ethicon?

13 A. If I thought it had merit, I  
14 would have.

15 Q. Okay. And so you're saying any  
16 of the -- you remember we went through some  
17 long-term studies with respect to both  
18 Gynemesh® PS products and TVT®.

19 Do you remember that?

20 A. Yes.

21 Q. And you didn't cite any of  
22 those in your report?

23 A. So one of them I don't  
24 recognize --

1 Q. Let me finish the question.

2 A. Okay.

3 Q. You did not cite any studies  
4 giving long-term results on either Gynemesh®  
5 PS products or TVT®, true?

6 A. Correct.

7 Q. Okay. And are you saying that  
8 none of those were reliable studies?

9 A. When I assess them, I did not  
10 think that they had the merit that I wanted  
11 to use them in my report.

12 Q. And what was your basis for  
13 that?

14 What was non-meritorious about  
15 them?

16 A. I can't remember the specifics  
17 of each report, but it had to do with either  
18 follow-up, for example, the Nilsson 17-year  
19 study. I mean, I could do the calculations,  
20 but the percentages are off, and half those  
21 patients were lost to follow-up. So you  
22 can't know whether the other half are doing  
23 well or not doing well.

24 Q. We talked about that one.

1                   What about any other studies?  
2                   I want to know other studies  
3                   that you say you considered that were  
4                   long-term follow-up, a year or more, for  
5                   either Gynemesh® or TVT®, and you  
6                   disregarded -- and you decided not to include  
7                   them in your report.

8                   A.       There's thousands of papers.

9                   Q.       That were long term?

10                  A.       There's thousands of papers  
11                  overall, and I looked at everything that I  
12                  had available to me, and I put it in my  
13                  report.

14                  Q.       If you thought it was -- I know  
15                  that.

16                  You didn't put -- you looked at  
17                  what you had available to you. You made a  
18                  decision about what to put in your report.

19                  What I'm trying to explore is how you made  
20                  that decision, and I guess what I'm hearing  
21                  is that if it isn't in your report and -- it  
22                  was a long-term study, okay, about TVT® or  
23                  Gynemesh® PS products and it's not in your  
24                  report, then you considered it not to be a

1 valid study?

2 A. It was not a good study,  
3 correct.

4 Q. Okay. And those studies were  
5 all peer-reviewed, and some of them were  
6 published in esteemed journals, true?

7 A. They're peer-reviewed.

8 Q. What do you consider to be the  
9 kind of first tier journals in your field?

10 A. The ones I looked at,  
11 Obstetrics and Gynecology, the American  
12 Journal of OB/GYN, International  
13 Urogynecology Journal, Journal of Urology.

14 Q. What about the New England  
15 Journal of Medicine?

16 A. Oh, yes.

17 Q. Any others? I just thought of  
18 that one.

19 A. Yeah, it's a good one.

20 I think I have that one in  
21 there, don't I?

22 Q. How about JAMA?

23 A. JAMA doesn't really have a lot  
24 of pelvic floor papers, but I did include

1 Richter's multi-center trial on Thomas that  
2 was published in the New England Journal.

3 Q. When you do an explant, does  
4 your operative report record what specific  
5 product it was?

6 A. No.

7 Q. Okay. It doesn't say TVT®  
8 versus Prolift® or something else?

9 A. My reports are very bland.  
10 They don't point fault at the surgeon or the  
11 company, but based on some of the questions  
12 that you've asked me today, I think I may  
13 change my op reports. I don't put in there  
14 where the company is from, how much I  
15 removed. My goal in my operative report is  
16 to take care of the patient.

17 Q. Do you record in your report  
18 whether it's mechanical-cut mesh or laser-cut  
19 mesh?

20 A. I do not, but I have the  
21 implant --

22 Q. Don't feel obligated to change  
23 any of your practices based on my questions.

24 A. Oh, I'm absolutely going to.

1 There's an education to these questions  
2 sometimes. So what I've tried not to do is  
3 throw companies or patients under the bus or  
4 doctors in the -- I didn't mean patients --  
5 doctors or companies under the bus in my op  
6 notes. They're very bland. This is what I  
7 did; this is what I got out. The pathology  
8 report documents what I removed. I have the  
9 implant log, I can go back and look it up,  
10 but I will add more information to my op  
11 notes.

12 Q. Is chronic inflammation more in  
13 the area of pathology than it is your area?

14 A. Chronic inflammation is a  
15 pathologic diagnosis, but it's manifested  
16 with clinical symptoms.

17 Q. You can have a chronic foreign  
18 body reaction and not have any clinical  
19 symptoms, true?

20 A. That's true.

21 Q. Okay. In fact, it's not at all  
22 uncommon if people have a foreign body put in  
23 their body permanently, then they often have  
24 a permanent foreign body reaction, true?

1 A. No.

2 Q. Of some degree?

3 A. Maybe of some degree, but not  
4 of a large degree.

5 Q. Right. That was my point.

6 When you have a foreign body  
7 put in your body, you often -- the body often  
8 has a chronic foreign body reaction, but that  
9 may or may not produce symptoms, true?

10 A. Yes.

11 Q. Okay.

12 A. In the case of polypropylene  
13 with the fibrillations and the cracking, it  
14 continues to perpetuate the chronic  
15 inflammatory response.

16 Q. Now, are you aware of any paper  
17 published, peer-reviewed paper, that says  
18 that, that polypropylene in the body produces  
19 a long-term foreign body reaction that  
20 produces long-term inflammation?

21 A. Yes.

22 Q. Okay. What paper is that?

23 A. Mary, 1998. She did it. She  
24 placed polypropylene suture in mongrel dogs.

1 Q. What's the author's name?  
2 A. Last name is Mary, M-a-r-y.  
3 Q. Are you aware of any paper that  
4 related to either TVT® or Gynemesh® PS or any  
5 other type of sling or prolapse product that  
6 says there's a chronic foreign body reaction  
7 that produces chronic, long-term  
8 inflammation?

9 A. Yes, Clavé paper.

10 Q. Anything else?

11 A. Not that I think of at this  
12 time.

13 Q. Is the Clavé paper referenced  
14 in your report?

15 A. I think it is.

16 Q. Can you just -- let's just make  
17 that the last thing we do.

18 Can you find your reference to  
19 the Clavé paper, please, in your report?

20 Here it is. I don't believe  
21 it's -- based on my review, I don't believe  
22 it's in the Gynemesh® PS report.

23 Well, I don't see it.

24 Do you see it?

1                   A.         How could I forget to put that  
2         in there?

3                   Q.         Let's just get a final answer,  
4         and I'll conclude the deposition.

5                   MR. MATTHEWS: I've got a  
6         couple questions.

7         QUESTIONS BY MR. BALL:

8                   Q.         Okay. Would you agree that the  
9         Clavé paper is not cited in either of your  
10       reports in this case?

11                  A.         I would have to agree with you.

12                  MR. BALL: I have reached my  
13         time limit and, therefore, I have no  
14         further questions, subject to whatever  
15         gets brought up now by Mr. Matthews.

16                  CROSS EXAMINATION

17         QUESTIONS BY MR. MATTHEWS:

18                  Q.         Dr. Veronikis, is the  
19         preparation of the Rule 26 report different  
20         from a paper that you would write for a  
21         peer-reviewed medical journal?

22                  A.         The process?

23                  Q.         Yes.

24                  A.         Well, the process is different,

1 but the methodology is similar.

2 Q. Explain what you mean.

3 A. Well, you go through the  
4 process of looking at papers and looking at  
5 documents. What's different is that with the  
6 Rule 26 report, I have corporate documents  
7 and depositions and et cetera that you don't  
8 normally have when you write a scientific  
9 paper.

10 On a scientific paper, you also  
11 have research that you're conducting and  
12 considering, but the actual methodology of,  
13 you know, coming to a conclusion is the same;  
14 you take all of the data that's provided, and  
15 you weigh in what you have at hand, and you  
16 come up with a decision.

17 Q. When you're doing a Rule 26  
18 report, would I be correct that you're giving  
19 your professional opinion?

20 A. Yes, it's my professional  
21 opinion.

22 MR. MATTHEWS: I don't have  
23 another question, but I see Clavé on  
24 footnote 29 on the TVT®.

1 MR. BALL: Well, let's look at  
2 that.

3 MR. MATTHEWS: It's actually  
4 referenced in an Ethicon document  
5 that's cited in footnote 29. So it's  
6 on page -- about the middle of  
7 page 21.

8 REDIRECT EXAMINATION.

9 QUESTIONS BY MR. BALL:

10 Q. So just so we're clear, you  
11 don't cite the Clavé paper or discuss the  
12 Clavé paper in the body of the report, true?

13 A. True.

14 Q. Okay.

15 A. But I did look at that paper.

16 MR. BALL: That's all the  
17 questions we have. Our time is up so.

18 MR. MATTHEWS: We'll get a  
19 rough, and send me everything they  
20 get.

21 (Deposition concluded at 2:28 p.m.)

22 - - - - -

23

24

1 CERTIFICATE

2

3 I, CARRIE A. CAMPBELL, Registered  
4 Merit Reporter, Certified Realtime Reporter  
and Certified Shorthand Reporter, do hereby  
certify that prior to the commencement of the  
5 examination, Dionysios K. Veronikis, M.D. was  
duly sworn by me to testify to the truth, the  
6 whole truth and nothing but the truth.

7

8 I DO FURTHER CERTIFY that the  
foregoing is a verbatim transcript of the  
testimony as taken stenographically by and  
9 before me at the time, place and on the date  
hereinbefore set forth, to the best of my  
ability.

10

11 I DO FURTHER CERTIFY that I am  
neither a relative nor employee nor attorney  
12 nor counsel of any of the parties to this  
action, and that I am neither a relative nor  
employee of such attorney or counsel, and  
13 that I am not financially interested in the  
action.

14

15



17

18 CARRIE A. CAMPBELL,  
NCRA Registered Merit Reporter  
Certified Realtime Reporter  
California Certified Shorthand  
19 Reporter #13921  
Missouri Certified Court Reporter #859  
20 Illinois Certified Shorthand Reporter  
#084-004229  
Texas Certified Shorthand Reporter  
21 #9328  
Notary Public

22

23

Dated: May 4, 2016

24